THE CHEMIST AND DRUGGIST

ESTABLISHED 1859.

CHIEF OFFICES: 42 CANNON STREET, LONDON, E.C.
BRANCH OFFICES: 231 ELIZABETH STREET, MELBOURNE, VICTORIA, AND EMPIRE CHAMBERS, YORK STREET, SYDNEY, N.S.W.

A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10*s.* per year, payable in advance, including a copy of the DIARY next published, and postage to any country in the world. Single copies, 4*d.* each. Cheques and Postal Orders should be made payable to "EDWARD HALSE," and crossed "MARTIN'S BANK (LIMITED)."

AS AN OFFICIAL JOURNAL

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

## CONTENTS: VOL. XLV. No. 10.

| | PAGE |
|---|---|
| A Farina-mill | 372 |
| Australasian News | 367 |
| Bankruptcies and Failures | 367 |
| Correspondence | 385 |
| Counter-irritation | 371 |
| Deaths | 380 |
| Drugs and Diseases | 378 |
| Editorial Comments:— | |
| Poisonous Proprietary Medicines | 374 |
| Otto of Rose Crop | 375 |
| Liquefaction of Hydrogen | 376 |
| Legislative Botchers and their Work | 377 |
| Editorial Comments (*cont.*)— | |
| Sale of Chemical Preparations | 377 |
| Modern Guilds | 377 |
| English News | 362 |
| Foreign and Colonial News | 366 |
| French Pharmaceutical News | 365 |
| Gazette | 369 |
| Irish News | 365 |
| Legal Reports | 367 |
| Marriages | 369 |
| New Companies | 370 |
| Practical Notes and Formulæ | 372 |
| Rhymes | 371 |
| Trade-marks Applied for | 370 |
| Trade Report | 381 |

## THE EDUCATIONAL NUMBER

of THE CHEMIST AND DRUGGIST for 1894 will be published next week (Sept. 15), and will contain full details of the pharmaceutical, medical, dentist's, veterinary, and scientific curricula and examinations. Prospectuses of schools, &c., for that number should be sent in promptly, and educational, scientific, and literary advertisements should be arranged without delay.

## POSTCARD COMPETITIONS.

### SEPTEMBER.

FOR our current competition we are taking a rather risky subject. We appeal to counter-prescribers. Each person who joins in this competition is asked to send in a couple of formulæ (the two on one postcard preferred) for medicines which have been or may be successfully and suitably supplied in complaints which are so frequently described over the counter. The formulæ sent in will be submitted to a medical man, and we may say as a guide to competitors that we fully share his prejudices against chemists undertaking the treatment of any but the most ordinary disorders. All subscribers, their families, and their employés are invited to compete, and all cards must be sent in before the end of this month. The usual guinea (at least) will be awarded for the best pair of formulæ.

## Summary.

COMMENTS on the prospects of the otto-of-rose market for the coming year appear on p. 375.

A CHEMIST'S manager, of Margate, has been committed for trial on a charge of bigamy (p. 363).

AMONGST new companies registered is one "to carry on the business of chemists and druggists" (p. 369).

PROFESSIONAL homœopaths are faring badly at the hands of the regular faculty in Germany (p. 366).

AN attempt to get money out of a large creditor is the subject of one of the bankruptcy reports (p. 367).

THE manufacture of farina from potatoes is described by a correspondent who has visited a Scotch factory (p. 372).

THERE were four deaths from rabies in one Department of Paris last year; yet Pasteur's door was not far away (p. 365).

THE importance of a lining to the back of showcards was established in Commissioner Kerr's court last week (p. 364).

PROFESSOR DEWAR seems to be on the high road to the liquefaction of hydrogen—a feat hitherto unaccomplished (p. 376).

AUSTRALIAN pharmacists propose to have a conference in Brisbane next January, when the Australian "B A." meets there (p. 367).

THE French chemist who has done so much in regard to the chemistry of kola has been made a Chevalier of the Legion of Honour (p. 365).

MR. EDWARD HORNER, one of the veteran wholesale druggists of London, died this week. We also learn by cable of the death of Mr. Caleb Soul, Sydney, N.S.W. (p. 369).

A JERSEY chemist has failed in the local court to sustain a claim for damages on a wholesale firm, who, he alleged, had supplied drugs other than what he ordered (p. 364).

SEVERAL cases of carbolic-acid poisoning are added to the roll this week. At the inquest on one victim a juror put some pertinent questions regarding the sale and dangerous nature of the acid (p. 363).

IN our Paris correspondent's letter there are some interesting notes of an investigation by Dr. Germain See on the assimilation of iron by the animal economy. Incidentally he speaks of several hematinic specialities, such as "ferraline" (p. 365).

THE type which has produced the fifth attack of counter-irritation is the garrulous old lady who, in buying a penn'orth of pills, manages to slip in a full account of her ailments and the incidents of the demise of her late-lamented (p. 371).

THE Holborn Board of Guardians wish one of their dispensers to resign, as they are economising, but it is doubtful if they can ask him without the sanction of the Local Government Board. So it appears from the discussion, reported on p. 364.

WE have it on the best authority that the defendants in the Pharmaceutical Society *v.* Armson case are not to proceed further with it. We comment on the evolution of the new interpretation of the law relating to the sale of poisonous proprietary medicines (p. 374).

MR. MCWALTER brings to our correspondence columns some further arguments to support his views on the limited-company pharmacy question as it exists in Ireland. We give this week a large number of replies to correspondents, including dispensing queries (p. 385).

A LARGE number of chemists have obtained "off" wine-licences during the past week, but in several cases there was some hesitation in the magisterial mind (p. 362). In this connection we also report the fining of a chemist for selling medicated wines without a licence (p. 367).

WE report several accidents in chemical-works, including the conclusion of the inquest regarding the fatality in a Gay Lussac tower in East London. It was proved that death was in the latter case due to nitrous fumes, and that no respirator can be devised to counteract them (p. 362).

b

# English News.

*The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.*

### Mr. Commissioner Kerr on Costs.

In the City of London Court on Saturday, before Mr. Commissioner Kerr, the case of A. P. Watt & Son *v.* Law was heard, in which the plaintiffs, of Hastings Street, Norfolk Street, sought to enforce payment of a judgment debt amounting to the sum of 33*l.* due from the defendant, Mr. E. B. Law, of 110 Cheapside, E.C. The plaintiffs' representative said that the defendant carried on the business of a manufacturer of the liqueur known as Peach Bitters. He had two places of business. Mr. Commissioner Kerr said the plaintiffs had originally sued the defendant in the High Court. Why had they done that? The defendant's representative said the defendant would be very pleased to pay the sum of 10*s.* per month, the same as he was doing with other debts. Mr. Commissioner Kerr said the plaintiffs must be thankful to get the debt at the rate of 10*s.* per month. They had put the defendant to a lot of costs unnecessarily. Order, 10*s.* per month.

### Artificial-teeth Dispute.

Mr. Commissioner Kerr tried a case on Saturday in the City of London Court wherein the plaintiff, Mr. Josiah P. Costa, dentist, of 114 Leadenhall Street, E.C., sought to recover the sum of 8*l.* 8*s.* for artificial teeth supplied to the defendant. Mr. Arthur Hill, of 27 Upper Thames Street, E.C. Mr. Carver, counsel for the defendant, said the teeth did not fit, and the defendant had consequently refused to pay for them. The plaintiff said he took the order for the teeth from the defendant. He supplied him with a complete set. The defendant said that one of the cases did not fit, and he had expressed his readiness to make them fit. To put the teeth in he had to remove some roots of the wisdom teeth. Mr. Commissioner Kerr: Wisdom teeth! What an awful misnomer that is for the majority of mankind! Further evidence was given, after which the learned Judge said that a set of teeth never would fit the first or the second time. The plaintiff must have an opportunity of making the teeth fit, or else the defendant must call in a dentist to show that they never would fit. The plaintiff said the defendant declined to let him make any alterations. Mr. Commissioner Kerr said he would adjourn the case "for the plaintiff and defendant to be a little bit more sensible." If it was impossible to make the teeth fit, then the defendant would escape from payment. The Plaintiff: I will make him an entirely fresh set if they do not fit. The case was then adjourned until October 5.

### Chemists at Cricket.

The students of the Central School of Pharmacy played a match with Barron, Harveys & Co.'s C.C. at Nunhead, on Saturday, September 1. Score: Barron, Harveys & Co., 52; the Central School of Pharmacy, 107.

### Chemists and Wine-licences.

Off wine-licences have been granted to—

Messrs. Crook & Co., 94 Terminus Road, Eastbourne.

Mr. James Lees, chemist and druggist, 38 High Street, Lees, Lancashire.

Mr. Samuel M. Hibberd, managing director of a limited drug-company, Queen Street, Wolverhampton.

Mr. Frederick Limbridge, chemist and druggist, 39 Castle Street, and 84 Broad Street, Reading.

Mr. G. W. Jones, chemist, Worksop.

Mr. Nichol Craig, chemist, Berwick-on-Tweed.

At Cheltenham Brewster Sessions off wine-licences were granted to Mr. John Rodman Mowatt, chemist and druggist, 109 High Street, Cheltenham; Mr. Thomas Pattison, chemist, 418 High Street, Cheltenham; Mr. William Forth, chemist and druggist, 397 High Street, Cheltenham; and Messrs. Nathaniel Smith and Mathew C. Manshridge, chemists, 373 High Street, Cheltenham.

At Taunton Annual Licensing Sessions, Mr. Bere, solicitor, applied for a licence on behalf of Mr. F. Wellington, chemist, 56 North Street, Taunton. Mr. Durham said that if the licence was granted it was opening a very big door for the future. The other chemists and druggists in the town had informed him that if that licence was granted they should apply for a similar one. Mr. Bere said any chemist having the necessary qualification could obtain a licence. The application was granted.

At Lancaster Brewster Sessions, on August 31, Mr. Stewart applied on behalf of Mr. John Wilcock, chemist and druggist, New Street, Lancaster, for an off wine-licence. Mr. Stewart said that his client's property was rated at 42*l* 10*s.*, and it had been a chemist's and druggist's business for a hundred and four years. Mr. Dawson: And you have never needed a wine-licence before? Mr. Wilcock: It is only within the last few years that doctors have begun to recommend medicated wines—that makes it necessary for us to get licences. Mr. Stewart said he thought chemists generally were making applications for wine-licences. Mr. Dawson: Not nearly all the chemists have done so yet. Mr. Stewart: They are only beginning. The necessary notices having been proved to have been complied with, the application was granted.

At the Sheffield Brewster Sessions, on August 30, John Shepherd Burnell, chemist, of Glossop Road, applied for an "off" wine-licence. Mr. Joseph Binney, who appeared in support of the application, explained that Mr. Burnell had no intention of using the licence for the ordinary sale of wines in bottles; he only wanted to keep in stock medicated wines. Alderman Clegg (to the applicant): Did you not apply here in the middle of the year? Mr. Burnell: Yes, before two magistrates; you were one of them. Alderman Clegg: That was to sell Coleman's wines, and you produced a letter showing how much profit you could make out of the sale. Mr. Binney: It is practically the same thing. Mr. Burnell has no disposition to go into the wine and spirit trade. Alderman Clegg: But he is doing so. Mr. Binney: I mean not in the ordinary sense of the word. It is not for the sale of ordinary port which, I was going to say, we take. (Laughter, Alderman Clegg being a prominent teetotaller.) Alderman Clegg: Well, I don't know what sort you take. Mr. Binney: It is necessary for me to call evidence as to character. I should like to call my friend, Mr. Neal (the opposing solicitor on behalf of the Social Questions League). Mr. Neal: Oh! I would not mind giving Mr. Burnell a character, but I don't think you would regard me as a credible witness. (Laughter.) After further discussion the Bench granted the licence.

### Accidents in Chemical-works.

An inquest was held at Poplar on September 1, respecting the death of James Jackson, a labourer at the Bromley Gas-works. The deceased had been employed with another man in loading bags with sulphate of ammonium, and was working at a large bin when a mass weighing some tons fell and buried him. He was extricated in about five minutes and sent to Poplar Hospital, where he died an hour later. The manager of the chemical-works, Commercial Gas Company, said that wedges were supplied for the purposes of breaking the ammonia down, but the workmen had undermined it and done so at their own risk. A verdict of accidental death was returned.

An inquest was held at the Royal Albert Docks on August 31 in reference to the death of Henry Bynderfeld, a cooper, in the employ of Messrs. Brunner, Mond & Co., soda-manufacturers, of Silvertown. Evidence showed that deceased was working with some other men repairing a belt which had come off a pulley, and had walked along a girder about 3 inches wide to the pulley, when he must have slipped and fell a distance of 13 feet. Mr. J. F. Brunner, managing director, said that the engine-driver and foreman could have done the work, but the deceased had offered his services, and it was not his duty to do such work. The house surgeon at the Seamen's Hospital said death could not have been due merely to the fall, but that the man must have come in contact with some part of the machinery in his fall. The jury returned a verdict of accidental death, and added a rider strongly recommending that notices should be put up in prominent places to prevent unauthorised and unskilled men from interfering with the machinery. Mr. Brunner promised to see that the recommendation was carried out.

At West Ham Police Court, on September 3, Messrs. Spencer, Chapman & Co., chemical-manufacturers, Silvertown, were summoned for failing to observe a rule made for the regulation of chemical-factories. Mr. W. Ellis-Hill appeared for the defendants. Mr. Vaughan (Inspector of Factories) said the defendants were in a large way of business at Silvertown. The Secretary of State had issued an order in December, 1892, declaring chemical-works injurious. A committee was appointed to inquire into the conditions of the trade, and reported that suitable respirators should be used in order that poisonous gases should not be inhaled. On August 10, the defendants were having repacked a Gay Lussac tower. Two men, John van Ryssen and Golden Bruce, were lowered into the tower. After being there a short time they were brought out, and Bruce had since died. Mr. Ellis-Hill, for the defence, said the occurrence was a pure accident, which the defendants greatly regretted, and which it was supposed arose through an escape of nitrous gas at the bottom of the tower. The rule as to suitable respirators could not apply to such a case as this. Mr. F. N. Sutton, one of the inspectors under the Alkali Acts, was called and said that he knew of no respirator that would be effective in nitrous vapours. Mr. David Howard, a chemical-manufacturer with over forty years' experience, said he knew of no respirator that could be trusted in nitrous fumes. They were the most dangerous fumes with which the chemist had to deal. At his works the instructions to the men were never to go near a place where there was an escape of nitrous fumes until the place had been well ventilated. The Magistrate said that it appeared that this escape of gas was an accident, and he had it in the evidence that there was no respirator that would be suitable for use in such fumes. The summons would be dismissed.

### Alleged Fraud on a Chemist.

At Wakefield Petty Sessions, on August 31, a young man named Henry Beaumont, a clerk, whose parents reside in Quebec Street, was brought up in custody on a charge of obtaining a sum of 2*s.* 6*d.* by false pretences from Mr. William Pollard, chemist, Westgate. The Chief Constable said that on August 24 the prisoner, who was formerly in the employ of the Victoria Coal and Coke Company, went to the shop of Mr. Pollard and, representing that he had been sent by the manager to purchase some articles, said he had found himself short of money, and obtained 2*s.* 6*d.* to complete a certain purchase. The manager of the Coal Company had stated that he had not authorised the prisoner to borrow any money, and had, in fact, discharged him about a fortnight previously. There were other cases against the prisoner, who was remanded.

### Prussic-acid Cake.

A sensational story about a birthday-cake being sent to a Miss Smith, of Scarborough, containing so much prussic acid that a single bite would prove fatal, was published last week. To Dr. Monk, the borough analyst and medical officer of health, was attributed the assertion as to its deadly properties. It was subsequently denied that Dr. Monk had made any such statement, but there still seems to be some mystery associated with "Miss Smith's birthday-cake."

### Claim for Perfumery.

In the City of London Court on Thursday, the Deputy Registrar (Mr. E. B. Tattershall) had before him, by way of a default summons, the case of the Crown Perfumery Company *v.* Thompson, in which the plaintiffs sought to enforce payment of an account in respect of goods supplied. It was stated that the debtor was carrying on a good business on his own account, and that the order was given to the plaintiffs' traveller in the usual way of trade. The traveller who took the order was out of town at present, however, and could not, therefore, be called to give evidence. The Deputy Registrar said he was sorry that was the case, as the evidence as it stood was not sufficient, and the case would have to be struck out.

### Carbolic Poisonings.

Robert Nicol (42), a joiner, of Hebburn, was found dead in bed on August 18, having taken carbolic acid. At the inquest the evidence showed that he had been out of work for some time and had taken to drink. A verdict of suicide whilst in an unsound state of mind was returned.

On August 28, Edward Edmonds, Westminster, was found in Hyde Park in an insensible condition, a bottle of carbolic acid lying by his side. He was removed to the hospital, but died on the way. At the inquest death was certified to be due to carbolic-acid poisoning, and the usual verdict was returned.

An inquest was held on Monday at Southampton, before the Borough Coroner, Mr. W. Coxwell, on the body of Susan Eysseric, who died on Sunday last. Just before mid-day she took a wineglassful of carbolic acid. Dr. O'Meara and Dr. Crofton promptly attended her, but their efforts were of no avail, and she died about 2 o'clock. A juror asked if any antidote could not have been given. The Coroner said white of egg was the best thing. The Juror: Does it not say that on the bottle? The Coroner: No; perhaps it would be a good thing if it did. The Juror: Is there no restriction on the sale of these poisons? The Coroner: Carbolic acid can be obtained by anyone. Dr. O'Meara said the label on the bottle stated that "if any acid should fall on the skin, its effect can quickly be remedied by washing in oil. If taken internally by mistake, large doses of sweet oil and castor oil should at once be given." Verdict, suicide whilst of unsound mind.

### Charge of Bigamy against a Chemist.

At the Tunbridge Wells Police Court on Saturday, Arthur Moyse, chemist's manager, of Margate, was charged, on remand, with marrying Annie Stanley, his first wife being then alive. William Henry Slade, estate agent, of North Perrott, Somerset, deposed that he was present at the Parish Church, North Perrott, on December 28, 1886, when prisoner was married to his (witness's) sister, Julia Anna Slade. Witness produced the certificate of marriage signed on that occasion. Annie Stanley, of Ramsgate, said she had known the prisoner for the last four months, and on August 15 she was married to him at the parish church of Ramsgate. She produced the certificate, the signatures appended to which were written in her presence. After the wedding she came with prisoner to Tunbridge Wells, where they lived together as man and wife in York Road up to the time of his arrest. Detective Barden who arrested prisoner on a warrant on August 20, said when he read over the warrant, prisoner replied, "It's quite right; I knew the risk I ran, and I chanced it. My first wife was a perfect wretch. I won't live with her again, come what may. I'm a done man now, and don't care what becomes of me." Prisoner was committed for trial, bail being refused.

### Claim for Wages.

In the City of London Court on Thursday, the case of Hobbs *v.* the Indigo-manufacturing Company was heard before the Deputy Registrar. It appeared that the plaintiff had for some time been in the employ of the defendant company, but was discharged, and there was now due to him the sum of 12*l.* in respect of wages. Evidence was given in support of the claim, but there was no appearance on the part of the defendants, and judgment was entered for the sum claimed, payable forthwith.

### A Forgotten Customer.

Mary Scott, an elderly woman, described as a teacher of music, living at Albert Road, Richmond, was charged at Bow Street Police Court, on Monday, with disorderly conduct. On Saturday afternoon, she went to a chemist's shop in Henrietta Street, and in reply to the assistant as to what she wanted, said, "A sniff out of a bottle." The assistant told her that they did not keep that kind of thing in stock. Prisoner, however, said this was the shop she intended to patronise, and as she refused to go, the assistant put her out. Prisoner created a great disturbance when she got into the street, and 205 E found it necessary to take her into custody. Prisoner explained to the Magistrate that she had come to London to see a doctor. When she got near this chemist's shop, she became very faint, and went in and asked the assistant to let her have a sniff at a smelling-bottle. She thought she was

justified in doing that, seeing what a good customer she was there forty years ago. Mr. Vaughan discharged the prisoner, on her promising not to repeat the offence.

### From the Channel Islands.

Mr. Leonard Whelan was recently granted permission by the Guernsey Court to practise as chemist. He has, it seems, been in the employ of Dr. Aikman since 1881, and also produced several testimonials of ability dating previous to that time.

At the same sitting of the Court, Messrs. E. Valentine Gibson and Thomas Simpson, having produced the necessary diplomas, were allowed to practise as medical men in Guernsey. Though the Channel Islands overflow with practitioners at present, "still they come."

Before the Jersey Petty Debts Court, last week, Mr. John Anley, chemist, of New Street, St. Helier, sued Messrs. S. G. Clements & Co. (Limited), wholesale chemists, to pay 2*l.* 19*s.* 9*d.*, as indemnity for the loss he had sustained through their alleged negligence in supplying drugs other than those he had ordered. It appeared, according to plaintiff's counsel, that Mr. Anley had already been sued for payment of the account in question, and an order to that effect had been made, though right of action on the present score was then reserved. The defendants' traveller (Mr. Preece) had, it was said, written to Mr. Anley, saying he had no doubt his firm would make good any loss he had sustained through their error. Defendants' advocate raised a bar-in-suit to the effect that they (Messrs. Clements) were not domiciled in Jersey, and, therefore, could not be sued in a local court. Judge Vaudin observed that defendants had already been allowed to sue in this court, though not represented by an attorney, and he thought they should now reply to this action. Defendants' counsel objected that Mr. Anley's statement of claim was not sufficiently definite, and asked for further details. The action fell through accordingly, though it will probably be renewed in another form.

One of the oldest and most respected of Jersey chemists, Mr. J. Piquet, York Street and Halkett Place, St. Helier, had a narrow escape from drowning last Sunday. He was bathing near Cheapside Slip, when the strong current swept him into deep water. Not being a strong swimmer, and fearing to be borne out to sea, he called for help, and two of his sons hastened to his assistance, and soon brought him safely to the shore. Mr. Piquet is none the worse for the mishap.

"Dr." Edmond de Renty, the French chemist who was in May last sentenced at the Jersey Criminal Assizes to four months' imprisonment with hard labour, and five years' banishment from the island, for defrauding the local gas-light company, was this week liberated on the expiration of his term, and duly placed on board a steamer bound for his native country.

### A Showcard Order.

In the City of London Court on Tuesday, before Mr. Commissioner Kerr, an action was brought by Messrs. Raphael Tuck & Sons, of Coleman Street, to recover the sum of 21*l.* 16*s.* for preparing an elaborate showcard for the Maxton's Food-wine Syndicate (Limited), of 101 Leadenhall Street. Mr. Crisp was counsel for the plaintiffs, and Mr. Gray for the defendants. The defendant company gave the plaintiffs an order to print 1,000 showcards displaying their food-wine, the defendants wishing to push the sale of their goods in grocers' and chemists' shops. The defendants refused to take the showcards on the ground that the bulk were not executed in accordance with the order. They said that the proof-card had a lining at the back, which the bulk should have had to make the cards suitable to hang in shop-windows. Chemists and grocers, they said, objected to hang cards in their windows if the backs of them became dirty, as they alleged the cards supplied by the plaintiffs would soon do. This was denied by the plaintiffs, who said that the showcards were as nearly as possible the same as the proof which was approved by the defendants. One of their witnesses, however, Mr. Vincent Brooks, admitted that the bulk was not in compliance with the order. Mr. Commissioner Kerr said that after that evidence he must find for the defendants, with costs.

### Trade Trip.

On Saturday, September 1, 200 of Messrs. Burgoyne, Burbidges & Co.'s employés celebrated their annual outing at the old-time Rye House in Hertfordshire. They started by the 10.32 train from Liverpool Street, arriving at Rye House at 11.30. The first part of the proceedings was a programme of athletic sports, including flat, sack, three-legged, and other races, tug-of-war, &c. Several handsome prizes were given by the heads of the firm and by other friends. Dinner followed, Mr. Webb presiding in the absence of Mr. Farries. In the evening an excellent programme of songs and music was gone through, Mr. W. J. Blackall presiding over this part of the day's proceedings.

### Homœopathic Chemists Moving.

Messrs. Leath & Ross, the well-known homœopathic chemists, are removing their City pharmacy from St. Paul's Churchyard to the Old Jewry, Cheapside. The St. Paul's branch was their original establishment. It was founded in 1836 by Mr. James Leath, who was a publisher. At this shop in St. Paul's Churchyard he commenced the sale of homœopathic medicines and soon found there was an extensive demand for them. Dr. Madden, of Brighton, at that time one of the leading homœopathic practitioners, introduced Mr. Charles Woolcott to Mr. Leath. Mr. Woolcott had been trained under Dr. Madden, and understood all about the manufacture of the new medicines. The business grew, and it was found necessary to open an establishment in the West-end. For this purpose the premises at Vere Street, Oxford Street, were selected, and this branch, now the headquarters of the firm, was at first conducted by a Mr. Morgan. He was succeeded in 1854 by Mr. Ross—a trained chemist, who had made a thorough study of homœopathic pharmacy. Three years later Mr. Ross was taken into partnership, and soon after the establishment of provincial agencies was commenced. After the death of Mr. Leath—some ten years ago—Mr. Ross became the sole proprietor of the business, but he has lately taken his manager, Mr. Walgate, into partnership.

### Another Surgeon Takes an Overdose.

An inquest was held at Hull on August 30 on the body of Mr. Arthur R. Jessop, a surgeon of the town, who had been found dead in bed. Mr. Jessop, who was only 29 years of age, had suffered from neuralgia, and death was proved to have resulted from chloral poisoning, chloral having been taken, it is supposed, in order to induce sleep. A verdict to this effect was returned.

### A Chemist's Assistant and the Nitric-acid Bottle.

A young man named Richard Ruffey, who was described as a chemist's assistant, and who had been for some time past in the employ of a chemist at Bermondsey New Road, was charged before Mr. Fenwick, at the Southwark Police Court, on Monday, with having attempted to commit suicide by taking a quantity of nitric acid. The prisoner, in answer to the Magistrate, was unable to assign any reason for his rash conduct, and promised that he would never do such a foolish thing again. The Magistrate accepted his promise, and agreed to release him upon his father entering into bail to the extent of 10*l.* for his son's good behaviour for six months.

### The Holborn Union and their Dispensers.

The Guardians of the Holborn Union are economising. On Wednesday, at their meeting at the offices, Clerkenwell Road, Dr. Hunter (Chairman of the Dispensary Committee) brought up a recommendation that one of the dispensers (Mr. Pattison) be called upon to resign, not from any fault, but because there was no work for him. Mr. Pattison was originally dispenser at the Gray's Inn Road Workhouse of the Union, but this establishment has been closed, and the paupers transferred to City Road Workhouse. Mr. Pattison at one time divided his time in dispensing at Gray's Inn Road and at the Highgate Infirmary, but the committee had rearranged matters and left nothing for him to do. Dr. Smith, at the Infirmary, had agreed to do a part of the dispensing, and Mr. Knowles, dispenser at City Road, is to divide his time between the latter establishment and High-

gate, his duty at the last-mentioned house to consist of making up stock medicines. It was doubted if Mr. Pattison, could be called upon to resign without the consent of the Local Government Board, and the Guardians decided to ask him to resign, subject to the approval of the higher authority. Dr. Hunter said there was a district medical officer of the Union who only had about three or four patients to see per day, and therefore that his office was a superfluity; and the Guardians decided to send a deputation to the Local Government Board to see if his services might not be transferred to another part of the metropolis where they would be more useful, and thus save the ratepayers of Holborn from having either to retain his services or give compensation for loss of office.

### The Charge of Stealing Syphons.

Alfred Martin (40), general dealer, who had been remanded at North London Police Court on a charge of obtaining syphons and screw-stoppered bottles by means of a trick, was brought before Mr. Lane, Q.C., at North London Police Court on Wednesday, and sentenced to a month's imprisonment. The prisoner said he asked for bottles for the marine stores, and not for the North London Wine-stores as alleged.

## Irish News.

Messrs. C. J. Denning & Co., chemists, Sligo, have recently fitted handsome premises at Boyle.

Seqnah has been at Boyle, co. Roscommon, where he did a good business. As the Medicine-stamp Act does not extend to Ireland, a travelling medicine-man has a freedom of action denied to him in the adjacent islands.

Messrs. Adamson, chemists, from King Street, Ballina, have taken over the premises in Knox Street where Mr. Philip Hoffe formerly carried on a similar business successfully. They have remodelled and refitted these premises, and have made them into quite a handsome pharmacy.

Mr. Chas. O'Hagan, L.P.S.I., has opened a handsome pharmacy at 43 Hill Street, Newry. Mr. O'Hagan served his apprenticeship with the late Dr. Conlor, and has had further experience in England and France. The fittings of the new pharmacy were supplied by Mr. Philip Josephs, of 54 Old Street, Goswell Road, London, E.C.

Messrs. James Selkirk & Co., of Cork, have converted their business into a limited liability company, under the style of the Munster Drug Company (Limited). This company will be carried on, as hitherto, under the management of Mr. James Selkirk, pharmaceutical chemist (G.B.), and Mr. J. H. Graham, L.P.S.I., late of the Apothecaries' Hall, Dublin.

Dr. Kenny, M.P., the Dublin City Coroner, showed scant courtesy to a lady the other day. It was at an inquest on Christopher Byrne, a blacksmith, who had died from cardiac syncope. A little before his death, he was in pain, and asked Mrs. O'Neill, a neighbour, to get a draught for him. She went to Mrs. Fitzpatrick, who keeps a drug-store in Benburb Street, and Mrs. Fitzpatrick mixed a draught for her. When Mrs. O'Neill got back the poor man was dead. "This was fortunate for Mrs. Fitzpatrick," said the Coroner, "for if the man had taken the draught she prescribed for him, I should have had her before me." "But she has a certificate for compounding medicines," said Sergeant 12 D. Mrs. Fitzpatrick is a registered druggist only, but perhaps the sergeant is not quite up in the intricacies of the Pharmacy Acts. "She has no certificate for prescribing medicines," rejoined the Coroner-Legislator. What is the statute which makes it penal for her to prescribe without a certificate, Dr. Kenny?

---

Kathleen (the servant): "Yez gev me this bottle of—phat's the nom av it?—jockey club—this mar-rnin, ma'am." Her mistress: "I did. Don't you like it?" Kathleen: "I do not, ma'am. I tuk about a wineglassful av it wid sugar an' hot wather, an' it's lift a taste in me mouth wud shpoil eggs!"

## French Pharmaceutical News.

*(From our Paris Correspondent.)*

Professor Schlagdenhauffen, of the Nancy School of Pharmacy, has been granted by the French Government the distinction of Chevalier of the Legion of Honour. The Professor's name is best known in connection with his researches on the chemistry of kola-nut.

Honours for Pharmacists.—The French Minister of Public Instruction has issued, somewhat tardily, a list of decorations awarded to French exhibitors at the Chicago Exhibition. Amongst these figures the name, as Officier of Public Instruction, of M. Camille Gras, "Pharmacien chimiste," who holds various public appointments, while M. Georges Halphen, chemist at the Customs Laboratory of the Minister of Commerce, has the rank of Officier of the Academy. Although it is not so stated, it is understood that these nominations are to some extent a recompense for the fact that the French Section did not accept awards at Chicago last year.

Rabies in Paris.—According to a report read by Dr. Dujardin Beaumetz at the last meeting of the Seine Council of Hygiene it transpires that four persons succumbed to rabies in the Seine department during 1893. Two of the victims were men, one a woman, and one a child. Two were bitten in the City of Paris and two in the suburbs. Dr. Dujardin Beaumetz pointed out that in one case only out of the four was the owner of the dog that caused the death prosecuted. He was condemned to pay a fine and 1,200f. as compensation. The suggestion was made that this measure ought to be more rigidly enforced, as if people felt that a pecuniary risk was attached to a dog suspected of madness more care would be taken to watch the animal or to muzzle it. The Council voted an expression of opinion to the effect that stringent measures should be enforced.

The French Association for the Advancement of Sciences—the counterpart here of the British Association—recently held its Annual Session at Caen, which lasted during seven days. This was the twenty-third congress. The programme consisted of the usual round of excursions, receptions, dinners and conferences. At the last-named a number of medical and scientific questions were treated. Dr. Lantier read a paper concerning a case of poisoning by tincture of arnica in which he had obtained a cure. M. E. Gossart, of the Caen Faculty of Sciences, gave his experiences of "Some Chemical Analyses by Homeotropy," and Professor Perroncito, of the Turin Faculty of Medicine, spoke of the "Action of different substances and chemical reagents on eggs and insects." A number of medical and scientific subjects of interest were treated, and a good deal of attention was attracted by Dr. Le Gendre's paper regarding "The Dangers Athletic Exercises may have for Children." Sport in schools is comparatively in its infancy here, and French medical men found it an excellent subject for theorising upon.

Adulterated Remedies.—The Marseilles police have in hand what appears to be a grave case of adulteration of medicaments. At the instigation of the Commission of Hygiene various remedies, especially antipyrin, have been seized in three pharmacies of the town; they are said to be largely adulterated. Rumour especially designated a pharmacist who contracts for the army as having dispatched to the colonies "quinquina," or Peruvian bark, of suspected origin. It appears that the product exported is merely the residue of the drug, obtained from manufacturers of medicinal wines. This man is said to have attracted trade by his low prices, and when attention was drawn to the market value of the product he played the little comedy of philanthrophy, saying, with tears in his eyes, that he really sold at a loss in order to benefit the soldiers who were defending the national honour far away. The statement is also made that he recently applied for a decoration as a recompense for the services so rendered. The Commission of Hygiene visited another suspected pharmacy, accompanied by a police commissary, where they found products designated "for export." An analysis of the antipyrin showed that it contained 40 per cent. of sugar and 20 per cent. of

other foreign matter. Iodoform was found to be mixed with sulphur and other substances.

The Therapeutic Action of Ferruginous Substances.—In The Chemist and Druggist of September 1 an abstract of the first part of a paper by Dr. Germain See on this subject was given, dealing with the mode of absorption and fixation of iron salts in the economy. In order to ascertain something concerning the absorption of iron, it is necessary to examine the liver of animals. Gotlieb and Hunkel have found that the livers of iron-fed animals contain more iron than others. "Iron," continues Dr. Germain See, "is, however, only consumed by man in very small quantities as a simple salt. When, however, it is administered medicinally, all ferruginous salts or compounds—such as albuminates or peptonates—pass into the system in the form of chlorhydrate of iron, the chlorhydrate then becoming the salt from which all the ulterior iron products are formed." The Professor proceeds to explain that besides "hematogene," a substance obtained by Bunge from the yolk of egg, as "nucleoles albumino-ferreuses," there may also be obtained from the yolk of egg, milk, the seeds of certain plants, &c., products called "hemol" and "hemogallol," by processes of reduction. The first is a product obtained by the action of zinc-dust on the blood of animals while the blood is still warm; the second is produced by the action of pyrogallol on the blood. Robert and his pupils appear to approve of these products. Dr. Germain See then proceeded to discuss the qualities of a substance introduced by Professor Schmiedeberg, called "Ferratine," which chemists have detected in the liver of pigs. It contains, under certain circumstances, as much as "6 per cent. of iron," and is stated to be the only substance taken with food that is found as a reserve material in the blood-forming tissues. Schmiedeberg has, according to the Doctor, called "ferratine" also "acid albuminate of iron," and it is found to disappear from a dog's liver when the animal is bled from time to time. In this case the provision for the formation of iron disappears. "Ferratine" appears to have a direct effect on the nutrition of the tissues. Professor Germain See has had occasion to use it in his hospital service at the Paris Hôtel Dieu, and he gave the result of his observations. He comes to the conclusion that "ferratine" does not produce "stomachic or intestinal derangements," even after prolonged use. It appears rather to exert a beneficial effect, acting in a slightly astringent manner, without giving rise to obstinate constipation, such as practitioners have to combat with ordinary ferruginous products. It has also the somewhat remarkable effect of exciting the appetite, which is always capricious with persons in a weak state of health. The dose is from 0.5 gram. to 1.50 gram., taken two or three times a day.

## Foreign and Colonial News.

Opium-smoking in New York.—According to the testimony of one of the witnesses before the Lexow Committee, there are about 10,000 smokers of opium in New York.

Trade-marks in Denmark.—A new trade-marks law comes into force in Denmark on May 1, 1895. A translation of the law is open for inspection at the Patent Office Library, London.

Compressed Medicines in Russia.—The Russian army will in future be supplied with medicaments in a compressed form. A Swiss factory has obtained the contract for the supply of the required compressing-machines and other plant.

Pharmaceutical Love-tragedy in Austria.—Pharmacist Anicini, of Agram, and his mistress, a girl of 15, were found dead in their lodgings the other day. They had first taken prussic acid, after which Anicini shot the girl and himself. The couple left a letter saying that they died happy.

Mineral-springs in Turkey.—A mineral-spring has been discovered on the road to Nimroun, 20 kilometres from Tarsus, in Asia Minor. Its water is said to have all the properties possessed by the Hunyadi Janos spring, and samples of it have been sent to Constantinople and to distinguished scientists abroad for analysis.

Messrs. B. G. Lennon & Co. (Limited), of London and Port Elizabeth, have purchased a stand in the most central position of Buluwayo, Matabeleland, and intend at once erecting a suitable store for carrying on a wholesale and retail chemist and druggist's business there. Buluwayo—poor Lobengula's late capital—promises to become a very important town within the next few years.

Pharmaceutical Honours to a Spanish Deputy.—Don Tiberio Avila, one of the deputies for Barcelona in the Spanish Cortes, has been appointed honorary member of the Barcelona Pharmaceutical Society, in recognition of the services rendered by him to pharmacy in the Spanish Legislature. The honour was conferred upon the Señor at a public dinner, at which many notabilities of the city were present.

Buluwayo's Hospital.—Buluwayo, the capital of the latest addition to the Empire, is about to acquire a hospital. A competition has been held of designs for the establishment, in which Mr. Holder, F.R.S., lately of Barberton, was successful. The cost of the main building will be about 5,000*l.*, and it is to be so constructed that additions can be made. Mr. Holder's plans provide for fifty beds, and complete accommodation for medical and nursing staff.

The German Government intend to take the initiative in the formation of a German association of analytical chemists, which will be charged with the drawing up of a code for the examination of alimentary substances and with the execution of a law relating to the adulteration of such substances. At a congress of chemists and microscopists recently held at Eisenach, and attended by Dr. Köhler, the director of the National Department of Public Health, the preliminaries of the association were discussed and agreed upon.

Sanitation in Constantinople.—The Turkish Government have decided to institute a permanent sanitary commission at the Prefecture of the City of Constantinople. The project involves the abolition of the sanitary commissions attached to the Imperial Civil School of Medicine, and the creation of a sub-commission in each municipal district. The commission has been placed under the presidency of Dr. Nafiz Pasha, military physician, and the regulations relative to its duties are being considered by the Council of State.

A "Beard-promoter" come to Grief.—The manufacturer of a German patent medicine known as "Professor Fragelli's Beard-promoter" has just been sentenced to a fine of 100*l.*, or in default two hundred days' imprisonment, for swindling. The individual in question advertised his nostrum in the *Fliegenden Blätter*, the well-known German comic paper, as an infallible means of producing facial hirsute adornment. Four youths among his customers, who invested their half-crowns in the purchase of the "medicine," but whose chins showed no signs of sprouting hairyness after its application, demanded their money back, and, after refusal, entered the witness-box against the medicine-man. Then it transpired that the "beard-promoter" was a concoction of benzoin, lavender oil, cinnamon, and sandalwood, with methylated spirit, costing 1½*d.* the bottle, and that the maker himself knew it to be inefficacious for the object for which he recommended it.

Persecuted Homœopathists.—The Central Union of homœopathic medical practitioners in Germany held their sixty-second annual meeting at Eisenach on August 9 and 10. The secretary, in his report, complained strongly of the increasing persecution to which, he says, homœopathic practitioners and students suspected of homœopathic leanings are exposed at the hands of the orthodox faculty. During the past year professional honours have been withheld, it is alleged, from a number of medical men fully entitled to them, solely on the ground of their being avowed homœopaths, while examinees of whom it was known that they were favourably disposed towards the Hahnemannian doctrine were badgered and bullied by the examiners to an unheard-of degree, and even formally called upon to renounce their principles, and submit to the teachings of the orthodox school. But as the blood of the martyrs is the seed of the Church, so the number of homœopathic practitioners increases year by year in spite or because of persecution.

## Australasian News.

Strange Doings at Coolgardie.—The New Goldfields of Coolgardie, in Western Australia, continne to attract a large inflnx of adventurers, and several chemists' shops have already been started in the fields. One individual, repnted be a "chemist," though not on the register, has already made himself notorious. The man, whose name is Ellis, and who trades as "Dr. Ellis," while in his tent suddenly fired six shots throngh the walls of the structnre. Then, reloading his revolver, he stepped ontside, calling on a passerby to stand or be shot. A miner immediately seized Ellis, and in the scnffle the revolver went off. The bnllet entered the arm of another man, shattering the bone, and passing out at the elbow. Ellis worked in the Broken Hill Proprietary mine during the strike, and subsequently practised under the name of "Elias, the Good Samaritan." He alleged that he was trying to shoot a man who annoyed him at the Barrier.

An Australasian Pharmaceutical Conference.—The Anstralasian Association for the Advancement of Science will meet in Brisbane next Jannary, and in connection with this event efforts are being made to organise an international Pharmaceutical Conference. The Pharmaceutical Councils of N.S. Wales and South Australia have been sounded on the subject, and, while agreeing in principle, have pointed out that in 1886, when a similar Conference took place, the only result was a considerable drain npon the exchequers of the pharmaceutical organisations. The two cases, however, are not exaotly on all fonrs. The Intercolonial Pharmaceutical Conference in 1886 was a meeting of delegates appointed to find some basis for the establishment of a system of the mutual recognition of the diplomas and certificates of registration of the Pharmacy Boards of the different colonies. The meeting in Brisbane will simply be a social gathering of men interested in varions branches of science for the reading and discussion of papers, for social intercourse, and for the preservation and publication of local investigations. The subscription is to be a guinea, which entitles the member to all the privileges of the year, reduced fares to Brisbane, and a bound copy of the annual volume of reports.

A Chinese Pharmacist and his Claim to Registration.—The application of one James Lamsey (a Chinaman, in spite of his British-sounding name) for a *mandamus* to compel the Pharmacy Board of Victoria to hear and determine his application for registration as a pharmaceutical chemist, came before Mr. Justice Hodges, in Melbourne, on June 20. Lamsey professed to have been practising pharmacy for many years, and that as far back as 1871–4 he "kept a shop at Heathcote, and sold drugs, herbs, powders, and liqnids." He admitted, however, that he could not read English, that he did not know anything of the Pharmacopœia, and that he bought the medicines which he sold from a local pharmacist. The sign over his shop was in Chinese, and meant, translated: "Medicines and storethings sold here." Sometimes an English doctor would come into his "pharmacy" and write prescriptions, and Lamsey "mixed them all up." He had a sort of compendium in English, Latin, and Chinese, in collateral columns. His shop was an open one—"from the door yon could see everything." The best testimonial of fitness Lamsey could bring was from one Mr. Crowle, J.P. and general storekeeper, whose view of the pharmacy was expressed in the following words:—"I cannot say if it was a chemist's shop; that is for yon, gentlemen, to determine. It was, in my opinion, a fair druggist's shop for a mining-rush, but I would not call it so now." The Pharmacy Board, it is scarcely necessary to say, refused the Chinaman's application; but, unfortunately, their zeal outran their discretion in so doing, for before actually listening to Lamsey's evidence in support of his case, the members of the Board, apparently knowing the applicant by reputation, had discussed him and his impending application in a free-and-easy manner among themselves, characterising him as a humbug, his stock as a collection of "dried tomato-skins," and tho fact that the doctor wrote prescriptions in his shop as a "degradation of the medical man." And thongh Mr. Lamsey himself did not write English, he had a solicitor who could, and who, while the members of the Board, unaware of the presence in court of this temporary retainer in Chinese service, sneered at Lamsey, wrote down all their words in shorthand on his papers, nor over uttered a word the while. And so it happened that, after the contemptuous rejection of his claim, Lamsey appealed to Mr. Justice Hodges on the ground that the Board had prejudged his case and were biased against him. The lawyer, before the Judge, submitted as evidence of this contention the shorthand-notes taken during the informal preliminary meeting of the Board, and Mr. Justice Hodges was so impressed with this evidence of want of judicial reserve, that, although he rejected Lamsey's appeal, he refused costs to the Board.

## Legal Report.

### Illegal Sale of Wines by a Chemist.

Mr. Frank Howard Gordelier, chemist and druggist, 11 Palace Colonnade, Boscombe, was charged at Bournemouth Petty Sessions on Thnrsday, August 30, by the Excise officers, with retailing wine without a licence on June 18.

Francis Beanne, an Inland Revenue officer, said that on the date in question he received a complaint that the defendant was retailing three sorts of wine—viz., Wincarnis, coca, and St. Raphael. On the evening of the same day he sent a lad into the shop, asking him to get a bottle of Wincarnis; the lad returned with a bottle of wine, for which he paid 2*s.* 6*d.* Witness then went into the shop and asked defendant's assistant if he sold Wincarnis, to which he replied, "No." Witness produced the bottle the lad gave him and called in the lad, whereupon the assistant admitted selling it, saying, "It was the last bottle." Mr. Gordelier, on being called, said, "I sell Wincarnis pnt up with quinine. That bottle came by mistake, and it was a mistake in selling it.'

By the Bench: Defendant is a chemist, and holds a licence to sell methylated spirit.

By the Defendant: He had only had one complaint as to the defendant selling wine without a licence. Witness had never seen excisable wine on the defendant's premises on other occasions. When he had visited the shop witness had not produced the bottle or the wrappers because he understood that only one kind was excisable.

Frederick Steele, of Pokesdown, proved purchasing the wine as described by the previous witness.

In defence, the defendant denied that the wine was sold with his knowledge. He had ordered a bottle of Wincarnis with quinine from the wholesale house, and the bottle sold had been sent by mistake and sold against the defendant's instructions.

The Bench said they absolved the defendant from keeping excisable wine upon the premises, and they believed that the present instance was a mistake. At the same time there had been a sale, and they must convict. The fine would be 10*s.*, and costs 15*s.*

## Bankruptcies and Failures.

*Re* Eli Barron, Thornaby-on-Tees, Bottle-manufactnrer.

The adjonrned public examination of this bankrupt came on for hearing at the Stockton Bankruptcy Court, before Mr. Registrar Crosby. The debtor in reply to questions said he had derived no interest from his father's estate for the past two years. After a considerable amount of pressure, he admitted that he sold his interest to a limited liability company for 1,800*l.* The debtor at first said he had not received any money since the date of tho receiving order, but he aftorwards admitted that Mr. J. Pemborton, of Leeds, paid him 5*l.* on June 6 last, and that ho had used that money for household expenses.

Mr. Hodgson (the trustee): What do you mean by writing

this letter to Messrs. Brabby & Hinchliffe, manufacturing chemists, of Manchester, in July last?—

Dear Sirs,—Your enormous claim comes before me to-morrow, for me to oppose, defend, or not know anything about it. Please wire what sum I am to have to defend, and not to oppose it. Please wire as soon as possible in the morning. You need only mention the sum of money in the wire.

Yours truly,
Eli Barron.

Debtor: It means exactly what it implies. I wanted some money.

Mr. Hodgson: Do you mean that you would let their claim of 1,500*l.* pass without opposing it?

Bankrupt: It means exactly what it says. I wanted some money badly, and wrote them for it.

The Registrar: If you don't give a proper answer I shall adjourn your examination at once.

Bankrupt: I cannot answer any further.

The Registrar: Yes, you can, and you shall.

Bankrupt: Their claim must stand on its merits. I cannot do anything with it.

The debtor in reply to further questions said he only had one drink-bill. Some goods had been sent from the works to pay for it, but he did not know anything about it until afterwards, as his foreman sent the goods. He knew nothing about 204 dozen bottles being sent to Messrs. Wren & Co. the day before he filed his petition. On being pressed, he said he would not say he knew nothing about them, but he would swear that he had never been paid the money.

Mr. Hodgson: Did you know anything about the transaction?

The Registrar: You need not pursue this matter any further. We will give him a long time to think about it. The Registrar then ordered the examination to be adjourned until October 22, and in the meantime the debtor was ordered to furnish accounts of his drawings from the business from September, 1893, and also of the money received and paid by the bankrupt or his solicitors from September 23, 1893.

---

*Re* Henry Boyce, 16 Jewry Street, E.C., and Woodford, Chemical Merchant and Agent.

The first meeting of creditors in this case was held at the London Bankruptcy Court, on September 6, before Mr. G. W. Chapman, Assistant Receiver. The receiving order was made on August 16, upon a creditor's petition, and accounts have now been filed showing gross liabilities 2,090*l.*, of which 840*l.* is expected to rank, and assets *nil.* The following are the creditors, viz:—

*Fully Secured.*

| | £ | s. | d. |
|---|---|---|---|
| Typke & King, 22 Laurence Pountney Lane, E.C. | 130 | 0 | 0 |
| Metropolitan Life Assurance Society, 13 Moorgate Street, E.C. | 160 | 0 | 0 |

*Partly Secured.*

| | | | |
|---|---|---|---|
| Merck, Emanuel, manufacturing chemist, 4 Cullum Street, E.C., and Darmstadt (Security valued at 900*l.*) | 1,900 | 0 | 0 |

The debtor has acted recently as manager to his brother, a chemical merchant and agent, trading as Boyce Brothers at 16 Jewry Street. He also acted for some years as manager to Mr. Emanuel Merck, the petitioning creditor, and has further dealt in chemicals, &c., under his own name, having an office first at 72 Mark Lane and later at 16 Jewry Street. The failure is the outcome of disputes between the debtor and Mr. Merck, who claimed in June, 1893, a sum of 3,600*l.* on difference of accounts, and recovered judgment last May for 1,800*l.* From June to September, 1893, the debtor traded on his own account and in his own name. In the latter month he took his brother Frank into partnership, and the business was then continued under the style of Boyce Brothers until March last. The debtor then retired from the firm, and has since acted as manager for his brother, who took over the assets and liabilities and continued the business. The failure is attributed entirely to the debtor's liability under the judgment recovered by the petitioning creditor.

No offer was made at the meeting, and the case was left in the hands of the Official Receiver to be wound up in the usual course of bankruptcy.

The public examination is appointed for October 17 next.

*Re* Mark Foggitt Thompson, 15 Gordon Street, Glasgow, chemist; and late 97 Prince's Street, Edinburgh; and of the firm of, &c.

This is a Scotch sequestration. The following are the creditors:—

| | £ | s. | d. |
|---|---|---|---|
| Armitage & Ibbetson, Bradford | 15 | 0 | 7 |
| Banks & Co., Edinburgh | 72 | 17 | 1 |
| Bryce, D., & Son, Glasgow | 21 | 10 | 0 |
| Cameron, J. A., & Co., Edinburgh | 15 | 5 | 0 |
| Cassells & Co. (Limited), London | 56 | 10 | 3 |
| Cleaver, F. S., & Son, London | 21 | 13 | 6 |
| Collinson, A. F., Glasgow | 21 | 0 | 0 |
| Cowan, Walter, Glasgow | 23 | 12 | 0 |
| Cowan & Co., Limited, Perth | 23 | 5 | 0 |
| Emmerson Bros., Manchester | 200 | 0 | 0 |
| Glasgow Apothecaries' Company, Glasgow | 32 | 14 | 0 |
| "Glasgow Echo" Company (Limited), Glasgow | 57 | 14 | 4 |
| "Glasgow Evening News," Glasgow | 16 | 12 | 0 |
| Gordon, Isaac, Glasgow | 1,150 | 18 | 1 |
| Hannaford, W. A., London | 17 | 4 | 0 |
| Harrison & Wade, Leeds | 43 | 9 | 0 |
| Hatrick, W. R., & Co., Glasgow | 73 | 4 | 3 |
| Hedderwick, J., & Sons, Glasgow | 20 | 3 | 10 |
| James, Joseph, Cheltenham | 23 | 0 | 9 |
| Johnston, R., & Co. (Limited), Southport | 15 | 12 | 0 |
| King, J. G., & Son, London | 123 | 19 | 5 |
| Leslie, Duncan, Perth | 16 | 5 | 0 |
| "Life & Work," Edinburgh | 22 | 0 | 0 |
| Lyall, J. W., & Son, London | 24 | 12 | 6 |
| Macduff & Co., Glasgow | 73 | 11 | 4 |
| McDonald, William, & Co., Edinburgh | 19 | 0 | 0 |
| McLure, McDonald & Co., Glasgow | 91 | 0 | 6 |
| McNair, J. D., & Co., Glasgow | 31 | 3 | 4 |
| Miller, Alexander, jun., Glasgow | 300 | 0 | 0 |
| Miller, Mrs., Dunoon | 105 | 4 | 1 |
| Mollison, Ness & Co., Glasgow | 31 | 2 | 1 |
| Murdoch, J. & J., Glasgow | 21 | 12 | 6 |
| Pair, F. Tennant, London | 16 | 10 | 0 |
| Reid, James, Glasgow | 21 | 9 | 0 |
| Ritchie, John & Co., Edinburgh | 32 | 4 | 3 |
| "Scottish Pulpit" Publishing Company, Glasgow | 15 | 6 | 0 |
| Scriven, H. W., London | 180 | 7 | 2 |
| Sharp, A. & F., Glasgow | 39 | 4 | 0 |
| Silverlock, Henry, London | 16 | 2 | 4 |
| The English Publishing Company, London | 15 | 12 | 0 |
| Thompson, Thomas, Pickhill | 200 | 0 | 0 |
| Vernon, Charles, London | 54 | 1 | 6 |
| Watson, Charles P., Glasgow | 19 | 5 | 0 |
| Wilkes, Charles, London | 23 | 0 | 0 |
| York Glass Company (Limited), York | 24 | 0 | 5 |

Statement of Affairs.

*Liabilities.*

| | | | |
|---|---|---|---|
| Preferable | 405 | 17 | 6 |
| Ordinary | 4,418 | 11 | 3½ |
| | 4,824 | 8 | 9½ |

*Assets.*

| | | | | | |
|---|---|---|---|---|---|
| Stock-in-trade and fittings in Gordon Street Shop | | | | 710 | 5 6 |
| Stock-in-trade and fittings in New City Road Shop | | | | 100 | 12 8 |
| Outstanding book debts | £155 | 5 | 2 | | |
| Estimated to realise | | | | 84 | 10 6 |
| Cash in bank and on hand | | | | 114 | 17 2 |
| | | | | £1,010 | 5 10 |

At a meeting of the creditors held on August 17 the bankrupt made an offer of a composition of 5*s.* per pound, payable fourteen days after his discharge, together with expenses attending the sequestration and the remuneration to the trustee. The creditors present resolved that the offer and security should be entertained for consideration. Another meeting of creditors will be held on September 21, for the purpose of finally deciding thereon.

---

*Re* Edwin Worth, 40 Old Christchurch Road, and Harberton, Cambridge Road, Bournemouth, Chemist, and Harry Hammond, 4 The Avenue, Southampton, Retired Draper (under the style of Worth & Hammond).

The following are the lists of creditors returned under the

deeds of arrangement in the cases named (see report last week):—

| | £ | s. | d. |
|---|---|---|---|
| Barnes, George Mountford, Bristol; Curtis, John, Bristol .. .. | 2,100 | 0 | 0 |
| Bleker, Brothers, & Pettitt, Bournemouth .. .. | 48 | 0 | 0 |
| Brewer, —, London .. .. .. .. .. | 600 | 0 | 0 |
| Burt, William Eaton, Bournemouth .. .. | 450 | 0 | 0 |
| Duffield, William Henry, London .. .. .. | 58 | 0 | 0 |
| Eliot, Pearce & Co., Bournemouth .. .. .. | 10,097 | 13 | 6 |
| Everett, Zachariah Simeon .. .. .. .. | 630 | 0 | 0 |
| Frampton, Arthur Tom, Bournemouth .. .. | 300 | 0 | 0 |
| Gill, Hannah, London .. .. .. .. .. | 475 | 0 | 0 |
| Hankinson & Son, Bournemouth .. .. .. | 46 | 0 | 0 |
| Marten, Georgiana Catherine Dixon, Swansea .. | 5,520 | 0 | 0 |
| Ormiston, Joan, London; Davies, John Jandrell, London .. .. .. | 500 | 0 | 0 |
| Price, Hall Rokey, London .. .. .. .. | 3,000 | 0 | 0 |
| Rebbeck, Thomas Warren, Bournemouth .. .. | 408 | 0 | 0 |
| Scholes, Denton, London .. .. .. .. | 2,600 | 0 | 0 |
| Smith, Samuel Wagstaff, Brighton .. .. .. | 5,600 | 0 | 0 |
| Trevanion, Curtis & Ridley, Bournemouth .. .. | 226 | 0 | 0 |
| Wintle, Henry, London .. .. .. .. | 1,800 | 0 | 0 |

Unsecured liabilities, 34,466*l.* 14*s.*

---

*Re* EDWIN WORTH, 40 Old Christchurch Road, and Harberton, Cambridge Road, Bournemouth, Chemist.

| | £ | s. | d. |
|---|---|---|---|
| Allen & Hanburys, London .. .. .. .. | 74 | 0 | 0 |
| Ashby, Miss, Bournemouth .. .. .. .. | 23 | 0 | 0 |
| Barron, Harveys & Co., London .. .. .. | 186 | 0 | 0 |
| Braud & Co., London .. .. .. .. .. | 30 | 0 | 0 |
| Broad, Miss, Bournemouth .. .. .. .. | 43 | 0 | 0 |
| Diplock, Elizabeth, Bridport; Diplock, Eunice Mary, Bridport; Diplock, Adah Emily, Bridport .. .. .. | 300 | 0 | 0 |
| Endle, F., Boscombe .. .. .. .. .. | 50 | 0 | 0 |
| Ford, Shapland & Co., London .. .. .. | 40 | 0 | 0 |
| Gifford, Miss, Bournemouth .. .. .. .. | 15 | 0 | 0 |
| Glover, J., London; Selwyn, Rev. Edward J., London .. .. | 1,500 | 0 | 0 |
| Hammond, Mrs. S. A., Southampton .. .. | 1,060 | 0 | 0 |
| Jenkins, Henry Nelson, Bournemouth .. .. | 500 | 0 | 0 |
| Leonard, Sydney, Bournemouth .. .. .. | 70 | 0 | 0 |
| Liverpool, London & Globe Insurance Company, London .. .. .. .. .. .. | 25 | 0 | 0 |
| Maw, Son & Thompson, London .. .. .. | 159 | 0 | 0 |
| Moore, J. H., Bournemouth .. .. .. .. | 35 | 0 | 0 |
| Nash, Waters & Co., Bournemouth .. .. .. | 30 | 0 | 0 |
| Partridge, —, Bournemouth .. .. .. | 44 | 0 | 0 |
| Pettey, W. H., Bournemouth .. .. .. | 30 | 0 | 0 |
| Rudd, Margaret Ann, Bournemouth; Scott, Thomas Bradley, Bournemouth; Piercy, George James (care of G. J. Piercy, Bournemouth .. | 900 | 0 | 0 |
| Randell, Sloper & Co., Southampton .. .. | 67 | 0 | 0 |
| Redfearn & Co., Bournemouth .. .. .. | 18 | 0 | 0 |
| Reed, Mrs., Bournemouth .. .. .. .. | 20 | 0 | 0 |
| Silverlock, H., London .. .. .. .. | 19 | 0 | 0 |
| Spencer, —, Parkstone .. .. .. .. | 60 | 0 | 0 |
| Toogood, W., London .. .. .. .. .. | 15 | 0 | 0 |
| Toone, J. A., Bournemouth .. .. .. .. | 53 | 0 | 0 |
| Vye, W. H., Bournemouth .. .. .. .. | 63 | 0 | 0 |
| Williams, Annie Baines, Beverley .. .. .. | 300 | 0 | 0 |
| Williamson & Son, Bournemouth .. .. .. | 50 | 0 | 0 |
| Worth & Smith, Bournemouth .. .. .. | 56 | 0 | 0 |

Bankers' Claims .. .. £260 0 0
Unsecured Liabilities .. .. 6,444 11 6

---

"'ARF a pound er margarino, please; an' mother says will yer put the cow on it, 'cos sho's got company."—*Punch.*

A PATOIS DICTIONARY OF PLANTS.—We are soon to have in Paris a literary novelty in the form of a dictionary of the patois names of plants. M. Rolland has undertaken the somewhat onerous task of collecting the information for the book, which will, as far as possible, be taken direct from the peasantry and the lower classes in towns. The task seems to offer a certain amount of complication, as the dialects in the various parts of France sometimes vary as much as foreign languages.

# Gazette.

## PARTNERSHIPS DISSOLVED.

**Gower, A. J.,** and **Gower, J. R.,** Tonbridge, under the style of A. & J. Gower, chemists, druggists, wine and spirit merchants, and dealers in beer, medicated wines, aërated and other waters.

**Jackson, W.,** and **Jackson, H.,** Liverpool, under the style of W. & H. Jackson, wholesale dealers in druggists' sundries and oil merchants.

**Knight, C. F.,** and **Chipperfield, T. J. B. P.,** Brixton Road, and the Turret, Streatham Hill, S.W., under the style of Knight & Chipperfield, surgeons.

**Landau, M.,** and **Campbell, T. H.,** Bermondsey Wall, Dockhead, S.E., under the style of Wilkins, Campbell & Co., wholesale chemists and druggists and drysalters.

**Marshall, J. D.,** and **Lawrence, A. F.,** Pimlico Road, S.W., and Bournemouth, under the style of Marshall & Duncan & Co., chemists and druggists.

## THE BANKRUPTCY ACTS, 1883 AND 1890.

### RECEIVING ORDERS.

**Baker, William,** Leicester, horse-dealer and veterinary surgeon.
**Collingwood, Charles,** Halifax, brush-manufacturer.

---

## KIESELGUHR.

BY E. J. PARRY, B.Sc.

A SHORT time ago (THE CHEMIST AND DRUGGIST, April 28, 1894, page 570) I noted some analysis of kieselguhr, which I mentioned at the time as not being representative of the best quality infusorial earth. I have since then received four samples of known origin, from several localities, through the kindness of Mr. John Moss, F.I.C. Three of these samples were powders of a minute degree of fineness, and perfectly white. Their composition was as follows:—

| — | 1 Germany | 2 Germany | 3 Aberdeen | 4 Australasia |
|---|---|---|---|---|
| Moisture .. .. | 8·45 | 5·21 | 0·03 | 8·22 |
| Other volatile matter | 8·17 | 1·04 | 0·32 | 2·15 |
| Silica .. .. .. | 68·01 | 92·08 | 95·34 | 87·40 |
| Ferric oxide .. .. | 6·82 | 0·23 | 3·65 | 0·65 |
| Alumina .. .. | 7·13 | 0·79 | | |
| | 98·58 | 99·35 | 99·34 | 98·42 |

Sample No. 1 was a brownish specimen, and a good deal of the volatile matter was organic. Samples 2 and 3 are first-rate samples of kieselguhr, and of perfect whiteness, containing over 90 per cent. of silica. Hurst, commenting on the previous figures I published, gave the following as the composition of Scotch kieselguhr in the *Chemical News*:—

| | |
|---|---|
| Silica .. .. .. .. .. .. | 92·0 |
| $Al_2O_3$ and $Fe_2O_3$ .. .. .. .. | 2·50 |
| $H_2O$ .. .. .. .. .. .. | 5·50 |
| | 100·0 |

No distinction is here made between moisture and combined water and organic matter. Later, I hope to have some photo-micrographs of the diatomaceous skeletons present in these earths.

## New Companies and Company News.

The annual meeting of Lawes's Chemical Manure Company was held on August 31, when the report was adopted, showing a net profit of 33,955*l.*, out of which a dividend of 6 per cent. was recommended, leaving 6,877*l.* to be carried forward.

The second annual meeting of the shareholders of Messrs. Morris & Griffin, chemical-manufacturers, at Newport and Wolverhampton, was held at Newport on August 31. In order to make additions to the works, the directors propose to offer the remainder of the unallotted 6-per-cent. preference shares to the present shareholders. A net balance of 2,372*l.* 2*s.* 9*d.* was available for distribution. The directors proposed to pay a dividend to the ordinary shareholders for the six months ending July 31 at the rate of 13 per cent. (making a total distribution for the year of 10 per cent.), leaving 1,001*l.* 11*s.* 3*d.* to be carried forward. The report was adopted.

---

Bright's Pure Drug Company (Limited).—Capital 5,000*l.*, in 1*l.* shares. Objects: To acquire a certain business, to adopt an agreement about to be made between W. S. Dickson, of the one part, and W. Galloway of the other part, and to carry on the business of chemists and druggists, including the sale of drugs, chemicals, patent-medicines, surgical and medical appliances, essences, &c. The first subscribers (who take one share each) are:—William Galloway, 1 Northampton Park, Canonbury; William S. Dickson, 4 Bonham Road, Brixton, druggist; Jno H. T. Smart, 87 Brixton Hill, S.W.; J. D. Armand, 37 Electric Avenue, Brixton, S.W.: Mrs. S. Prettyman, 4 Bonham Road, Brixton; William C. Courtney, 7 Offley Road, Stockwell; J. Baker, 61 Graveney Road, Tooting. The first directors are the first two signatories. W. S. Dickson is the managing director Registered office, 31 High Street, Clapham, S.W.

Thos. Fewster & Son (Limited).—Capital, 20,000*l.* in 10*l.* shares, of which 800 are preference. Objects: To enter into an agreement with Charles E. Fewster for the purchase of the business of a paint, varnish, and patent dryer manufacturer carried on by him at Kingston-upon-Hull, Yorks, under the firm of "Thos. Fewster & Son," and to carry on the same. The first subscribers (who take one share each) are: C. E. Fewster, Princes Avenue, Hull, paint manufacturer; Mrs. Ida Fewster, same address; R. K. Witty, 32 Silver Street, Hull, bank manager; W. P. Birkinshaw, Parliament Street, Hull, chartered accountant; G. A. Gale, West Hill, Hessle, near Hull, chartered accountant; T. Hall Sissons, Hull, paint and colour manufacturer; D. W. Sissons, Hull, paint and colour manufacturer. The first directors (to number not less than three nor more than five) are: T. Hall Sissons, D. W. Sissons, Allan T. Hall, H. H. Sissons, and (as representing Charles E. Fewster) Geo. A. Gale. Qualification, 100*l.* Remuneration, 50*l.* per annum divisible. Registered office, 44 Sykes Street, Hull.

Howard Carr Wolfe Company (Limited).—Capital 28,000*l.*, in 10*l.* shares (of which 2,300 are "A," and 500 "B," shares). Objects: To acquire certain rights and privileges from Gerald H. and Howard C. Wolfe, and to carry on the business of seed-crushers, oil and oil-cake manufacturers, cotton-ginners, soap-boilers, and manufacturers, &c. The first subscribers (each of whom take one share) are:—H. C. Wolfe, 66 Grafton Street, Liverpool, seed-crusher; G. H. Wolfe, same address, merchant; W. F. Barroll, 11 Lord Street, Liverpool, solicitor; F. A. M. Kirby, 8 Brunswick Street, Liverpool, corn-broker; W. Downs, 66 Grafton Street, Liverpool, merchant; G. B. Rodway, 14 Harrington Street, Liverpool, solicitor; T. L. Wilkinson, same address, solicitor. The first directors (to number not less than three, nor more than five) are:—Alfred W. Bryans, William Downs, and Gerald H. Wolfe and Howard C. Wolfe, who are the managing directors. Qualification, 500*l.* Remuneration, 100*l.* per annum between them.

## Trade-Marks Applied For.

Any person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

---

(*From the "Trade Marks Journal," August* 22, 1894.)

"Sidoline"; for vermin-destroyer. By Gostling & Co., Market Hill, Diss, Norfolk. 180,999.

"Cud Levene," and devices of syphon and glass on table, and two children in foreground; for effervescing cod-liver oil. By H. Ackerman, 100 Cotham Brow, Bristol. The essential particular is the combination of devices. 180,606.

Device of monument with bird on top holding leaf in mouth; for a salve for human use. By J. & J. Taylor, 4 Bank Street, Alexandria, N.B. 180,736.

"Brookeho"; for an embrocation. By F. Holbrook, 31 Irongate, Derby. 181,032.

"Arema," and wording, and device of vaporiser; for curative purposes. By W. B. Mason, 18 Guildford Street, Leeds. The essential particular is the word "Arema." 180,842.

(*From the "Trade Marks Journal," August* 29, 1894.)

"Arema"; for inhalants. By W. B. Mason, 18 Guildford Street, Leeds. 180,841.

Device of Banbury Cross, and wording; for perfumery and toilet articles. By T. W. Coleman (Limited), 56 Parson's Street, Banbury. The essential particular is the device. 180,102.

(*From the "Trade Marks Journal," September* 5, 1894.)

A label showing picture of a fire-brigade for chemical goods in class 1. By the Badische Anilin & Soda Fabrik, Ludwigshafen. 174,442.

"Vega," as a device through a circle with arrow-heads; for caustic soda and soda ash. By Archer, New & Co., Victoria Street, Liverpool. 180,676. The same for goods in class 2. 180,677.

"Telos"; for chemical substances. By F. C. Calvert & Co., Bradford. 180,946. Also for classes 2 and 3. 180,947–180,948; for perfumery. 180,950.

Figure of a jay (which is the essential particular) standing on the curve of a J, and "Jay brand"; for varnishes and paints. By T. S. Jackson & Sons, 199 High Street, Borough, S.E. 181,263.

"Turret"; for chemical substances, classes 2 and 3. By F. C. Calvert & Co., Bradford. 181,315–6. For perfumery. 181,318.

"Hamvirole"; for goods (medicinal, &c.) in class 3. By Oppenheimer, Son & Co. (Limited), 14 Worship Street, E.C. 181,622.

"Zo-am-bar"; for goods in class 3. By A. H. Atkins, 23 Bouverie Street, E.C. 181,636.

"Movillette"; for philosophical instruments, scientific apparatus, &c. By J. Raphael & Co., 13 Oxford Street, W. 180,216.

Figure of a phœnix within a mosaic oblong; for mustard. By J. & J. Colman, 108 Cannon Street, E.C. 180,982.

A label with wording "Henkel's Bleaching-soda, &c.," and figure of a lion; for bleaching-soda. By Henkel & Co., 171 Gerresheimer Strasse, Düsseldorf. 180,434.

A label with wording "Lavacene, or lavender liquid ammonia," &c.; for a preparation for the toilet. By W. J. Tildesley, chemists' assistant, 1 Market Place, Wokingham. 181,277.

"Yo-ar-no"; for perfumery, &c. By A. H. Atkins, as above. 181,637.

## COUNTER-IRRITATION.—V.

"TROUBLE? you may well say that, sir! It was just like this, you see. My pore husband was mate aboard of a coalin' brig tradin' from Shields, and one day just as he was a runnin' into Portsmouth Harbour through a bit of dirty water owin' to a strong sou'-easter a-blowin' agin a spring ebb, up comes a heavy squall, and afore you could say 'Jack Robinson' over goes the brig on her beam-ends. She was only in ballast and not much of that, you understand, sir, and just then, bump! comes a big wave a-beatin' back from the Hot Walls and, the hatches bein' open owin' to her bein' close in shore, that settled her. My pore man jumps into the water with all his gear on and gets carried out to sea by the tide which is powerful strong in the fairway, and gets pulled down by his boots and, although some young gents pnt off from the Rowin' Club and pulled like mad after him, he was never seen alive again. The first I heard of it was Sergeant Malone of the police. He comes to the front door and raps quiet like, and says he to me—I knew the sergeant well and he looked serious, and he says, 'Mrs. Jones, be prepared to hear bad news,' and I says cautious, 'About what?' and he says, 'About your husband, but don't take on.' Then I says, 'What's he got took up?' And he says sorrowful, 'No, wuss!' Then I screams out, 'You don't say the dirty blackguard has gone off with that Jenny Waters after all? Where've they gone? Let me go after 'em; I'll teach him to leave a honest woman and a mother o' seven to go off with a slut like her! I'll break every bone in his dirty body!' Then the sergeant—he was a nice-spoken man was the sergeant, and I was sorry he saw me with me hair a-flyin' all over the place—he tells me all about it, and how as they was afraid they wouldn't recover the body, but 'ad 'opes, and then the sergeant and the shingle and the piles of seaweed begun to knock up agin each other, and I woke up in the infirmary as limp as a fores'l when a brig's head comes up into the wind. It was days before I felt better from the shock—me expectin' to have a baby and all—and I've had a hard fight ever since. It was nearly a week after, when some men was after practice-shot, that he was dredged up off Hayling Island. I *would* see him again, although I had a fit when I found I didn't hardly know him, he was that blue and bloated. I had a hard time in the workus, me that if I came into my own should have a comfortable little bit, only that rogues is everywhere; and although Government took me up 'cause my husband was a reserve man, I didn't get nothink. Then my brother, he was a prison-warder at Dartmoor, and he saved a bit in a stocking, and left it to me in a will; but I never saw a penny of it—and that's how these pains came on."

"Now about these pains—" I commenced, but she had her wilful way, "Oh! as to that, when I was in the workus I spoke to the doctor and he wouldn't listen to me when I wanted to tell him all about it, he just said 'Wind,' and ordered salts. And they gave it to me in an old paraffin bottle, and I couldn't abear the mixture, let alone the paraffin, and had such risings after I took it, that I had to give it up and use it for a hair-wash. Then I was took out of 'the house' to cook for a fambly on the common and so I got a few shillings together and went to Doctor Smith and he said it was nerves and gave me a tonic, but Lor', he didn't do me no good and was always in that hurry too, he wouldn't let a body speak! Sometimes I think it's somethink internal, and me at my time of life and a-standin' over a 'ot stove all day and my eyes that bad too, and my missus a-wantin' me to go to church and all. 'Why,' I says to her, 'I can do just as well in my coal-cellar, ma'am, and thank ye kindly for nothing.' Oh, I speak my mind when I'm a mind to, I do! Then I don't get help from them as oughter to look after me, me a-livin' seventeen years in Landport, and a-payin' rates and taxes reg'ler all the time. There's my eldest son gone to Canada, and never a line to say where he is or a word to his old mother. My daughter, well she's married now, but she and me don't get on and never shall. She's too 'igh and 'aughty for her pore old mother. She married a fried-fish shop in Brixton, if you please, and thinks a lot of herself and her blue feather. But there was a time when I could hold up my bead with the best of them. Why, my grandfather when be was a young man——

"What? Pressed for time? Well I must say, young man, you've precious little siduration for poor people as has bln put on. A penn'orth nv autibitious pills, if you want to know, and just be quick, 'cause missus 'll be ravin' mad to know what you're a-keepin' of me for."

---

## OUR LADY SENIOR.

(BY THE JUNIOR).

SHE knows a lot of botany, and drowns the dear moneteny
With chemical equations and pharmacy galore:
She can spread a soothing plaster, and the toughest sum she'll master
In that tricky metric system which plucks juniors by the score.

She can make a good emulsion, doesn't show the least repulsion,
When a batch of asafœtid. pills is given her to make;
Knows her Virgil and her Cæsar, and no fellow seems to freeze her
When required to make a bolus for the farmer's horse to take.

She will undertake analysis, or cure the cat's paralysis,
Or prescribe for ailing mortal with a sweet and soothing balm;
And she never gets excited, or requires her mixtures righted,
And she never smashes measures, stamps around, and mutters "Dalm."

She drinks citrate of magnesia, and nothing can be easier
Than the way she takes her dinner when the shop-bell rings so shrill.
While the guv'nor jumps and blusters, and the message-boy he flusters,
As he thinks of chop that's cooling while she calmly takes her fill.

The apprentice madly loves her, but the message-boy he shows her,
And leaves the trap-door open leading to the cellar-stairs;
For he'd like to see her tumble, as loudly he does grumble,
"'Cos she boxes 'is ears, an' puts on her bloomin' airs."

In short, this learned maiden, whose charms are still unfading,
Rules the roost and bosses everyone in quite commanding way:
And she looks at you so sweetly, knows her business so completely,
That I think our lady senior has lately come to stay.

W. C. (84/39.)

---

## BACILLI IN THE AIR.

I ASK a glass of water, or of claret, or of beer:
I go to kiss a pretty maid—she turns away with fear:
I eat some lemon jelly that's been standing on the sill,
And they tell me all are loaded—that they're warranted to kill.
I'm not much up in science, but I know a thing or two:
I know that if I do not eat, or drink, or kiss a few
Of those fashionable, dreaded germs, I certainly will die,
For I'd have to give up breathing to escape the bacilli
Bacteria, bacteria! I'm not afraid of you
The world will roll around the sun for all that you can do:
So on pound-notes, and papers, and on kisses, and on food
Just hand me common bacilli—I'm not a science dude.
And what's the use of living, if you cannot eat or drink,
If pretty girls, and bankers' notes, and even printers' ink,
And country fairs, and pencils are only other terms
For the rapid-transit system of the scientific germs?

---

## MUST ADVERTISE.

A MAN may guy,
And a man may lie,
And a man may puff and blow;
But he can't get trade
By sitting in the shade,
Waiting for business to grow.

## A FARINA-FACTORY.

"WHAT may that be?" was my question to a passer by, and I pointed to the tall chimney of a factory which nestled on the hillside.

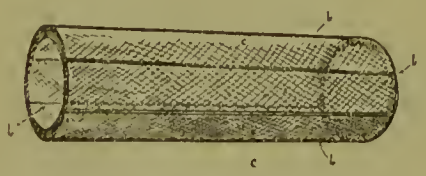
"Oh, that's a tátie-mill," was the response.

I was in Scotland, near the village of Guay, on the Highland Railway, and the sound of shooting on the moors was evidence that grouse were still about. "Tátie" is Scotch for potato, and "mill" is universally used north of the Tweed for "factory." The reply carried me no further, but, ashamed to display ignorance, I determined to personally investigate the matter, which circumstance soon enabled me to understand that the "tátie-mill" consumed potatoes, and turned out starch or farina.

A courteous foreman was my guide through the factory. There was a lot of money in farina twenty years ago or thereabouts, but German farina has shut up many a small factory in this country since the Franco-Prussian war. German farina was known and used here before that, but it had not the hold upon our markets it has now. The German stuff is cheaper than the British. I do not say that it is produced cheaper—I should rather put it the other way, for on our Highland farms potatoes can be grown as cheaply as in Germany, while adult male labour can be got at 12*s* to 15*s*. a week, and water-power for nothing. When Britain used British farina only the manufacturers made fortunes quickly, and I fancy that it was their desire to hold on to this condition of things that gave the German manufacturers the chance of slipping in. It probably is true in this, as in other cases where the British "cost of production" is unfavourably compared with German, that the manufacturer's income is reckoned in the cost.

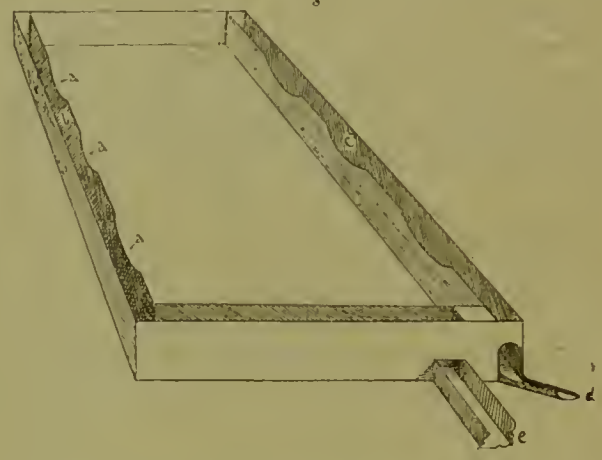
A mountain stream serves to drive the 15-foot wheel which does the chief work in the factory which I inspected. The wheel revolves slowly in sympathy with the energy of the neighbourhood. Within the four walls are all the arrangements for crushing the tubers, sifting, washing, bleaching, drying, and grinding. The potatoes are crushed and sifted three times, and each time starch granules are collected. There is little of special importance to note until the sifting stage is reached, and this is an ingenious method of filtration which it might be possible to adopt in some pharmaceutical processes. As the potatoes are crushed they are supplied with abundance of water, which carries off the finer material, the outgoing stream resembling nothing so closely as brown muddy water. In this condition it rushes to a filtering-box (fig. 2), in which are a number of hexagonal filtering-frames (fig. 1), the form of which is represented in the sketch. These are so arranged in the box that the

Fig 1.



stream of unfiltered material flows past and into the left ends. Each "sieve" is made up of six strong wood supports secured to the wheel-ends, and round the circumference very fine muslin is stretched. Through this filtering-medium the water and the finest of the starch granules pass with amazing rapidity, and the mixture is at once conveyed to long settling-tanks, whence the water is drained off from time to time, and fresh wash-water supplied if need be. The coarser material is reground twice, and the final coarse product, already freed by the previous washings from fibre and earthy matter, is carried to large settling-ponds outside. To this I shall return later. There is nothing particular about the settling-tanks. They are huge wooden boxes about 10 feet long by 3 feet wide and 3 feet deep, arranged side by side to the number of a dozen or so. The starchy mixture in these varies in colour from a whitey brown to pale brown. After several wash-waters, this magma is lifted into the bleaching-vats, which are circular, about 6 feet deep and 12 feet in diameter. Here the starch is treated with bleaching-liquor, the mixture being well agitated by a mechanical stirrer—two slabs of wood attached to an iron upright with a bevelled cog-wheel at the top. When the proper degree of whiteness is attained the mixture is allowed to settle, and the liquor is drained off. The starch forms a solid but brittle mass, about a foot thick. It looks almost white and has a faint odour of the bleach. It has yet to be washed with several waters, one of which is made slightly acid with *aqua fortis*—to "kill" the bleach, I presume—then it is drained and carried to the drying-loft. There is nothing novel about the drying-arrangements. A

Fig 2.



long range of perforated and movable shelves or trays stands in the centre of the loft, and under each shelf is a steam-pipe. Canvas boards are put up in front of the shelves, but quite loosely so that the vapour has free way to escape. The drying of starch is a "kittle" thing—indeed, the risk of tumefaction has before now troubled the learned heads of the chemical side of Burlington House—but I could awake no terrors thereanent in the staid individual who guided me on this occasion. It is part of his business to dry starch, and it seems to trouble him no more than the eating of his porridge.

After the starch is dried it goes through a runner-mill, and thus becomes marketable farina. On the day of my visit the drying-trays were filled with a brown granular substance which reminded me of badly-made ferri carb. sacch. eff. This was the coarse refuse which I have mentioned previously. When ground it goes to paper-makers, who prefer it to starch for sizing. During the Franco-Prussian war this material was selling at 25*l*. to 30*l*. per ton. Potatoes can be bought at 24*s*. per ton just now. This coarse stuff is of a dextrinous nature, and I have heard of some druggists to whom its origin is as mysterious as how the apple gets into a dumpling. I may be betraying a valuable trade secret in thus telling what I have seen. If it be so, what, I wonder, is the peculiarity of this brown refuse which makes it preferable to pure starch? It contains, I should add, all the diseased parts of the potatoes, and the coarse grains of starch, but very little fibre.

## Practical Notes and Formulæ.

### EGG-LEMONADE.

| | |
|---|---|
| Shaved ice .. .. .. .. .. | ½ tumblerful |
| One egg | |
| Juice of one large lemon | |
| Powdered sugar .. .. .. .. | 3 teaspoonfuls |
| Spring-water .. .. .. .. | 6 fl. oz. |

Shake thoroughly, add soda water as required, and grate nutmeg on the top.

### WATERPROOFING FOR THE SOLES OF SHOES.

THE compound is applied over the welt and insole, or over the seams, joints, peg-holes, &c. Two and a half pounds of wax are melted, and 3 lbs. of powdered talc, steatite, or soapstone are mixed therewith; 4 pints of rubber-paste or caoutchouc (Brazilian gum) are then incorporated with the mass.

### TEST FOR SALOPHEN.

BOIL 10 grammes of salophen with 10 c.c. of a 2-per-cent. solution of soda; the mixture immediately becomes blue. Heat further, and the colour disappears, turning to reddish-yellow. On cooling, the solution again becomes blue.

### BORAX AND ALKALOIDS.

IT is not generally known that borax will precipitate most of the alkaloids from solution. Precipitation at once occurs with cocaine, quinine, and atropine salts; more slowly with morphine. Borax behaves like an alkali, and its association with alkaloidal salts should be avoided. Such mixtures are all the more dangerous where the precipitation is slow, as in the case of morphine.—*L'Union Méd. du Nord Est.*

### A BLUE INK FOR USE ON GLASS.

A BLUE fluid for writing on glass, which is not attacked by water, can be made, according to *Neuesta Erfindungen und Erfarhungen*, as follows:—Shellac, bleached, 10 parts; Venice turpentine, 5 parts; oil of turpentine, 15 parts; indigo, in powder, 5 parts. Mix the shellac, turpentine, and oil of turpentine and place in a waterbath, under gentle heat, until solution takes place, and then stir in the indigo.

### SHAMPOO LIQUIDS.

BELOW we give a number of formulæ from which a suitable one may be selected:—

1.

| | |
|---|---|
| Tinct. arnica | 1 drachm |
| „ cantharides | 2 drachms |
| Water of ammonia | 3 „ |
| Alcohol | 8 fl. oz. |
| Soft water | 8 „ |

2.

| | |
|---|---|
| Aqua ammonia | 2 fl. oz. |
| Tinct. cantharides | 1 „ |
| Tinct. capsicum | 1 oz. |
| Alcohol | 32 fl. oz. |
| Water | 32 oz. |
| Carbonate of potash | 1 „ |

3.

| | |
|---|---|
| Ammonia carbonate | 4 drachms |
| Borax | 1 oz. |
| Dissolve in water | 2 pints |
| Add— | |
| Glycerin | 2 oz. |
| Jamaica rum | 6 pints |
| Bay rum | 2 „ |

4.

| | |
|---|---|
| Alcohol | 8 fl. oz. |
| Water | 8 „ |
| Soap | 2 „ |
| Carbonate of potash | 4 drachms |
| Oil of lavender | 20 minims |
| Tinct. quillaia | 2 fl. oz. |

5.

| | |
|---|---|
| Glycerin | 1 fl. oz. |
| Aqua ammonia | 2 „ |
| Alcohol | 16 „ |
| Water q.s. to make | 32 „ |

6.

| | |
|---|---|
| Carbonate of potash | 1½ drachm |
| Tinct. cantharides | 2 drachms |
| Water of ammonia | ½ oz. |
| Bay rum | 1½ „ |
| Alcohol | 1½ „ |
| Water | 1½ „ |

### SALOL-COATING FOR PILLS.

ORDER (*Berl. Klin. Woch.*) has made a number of experiments with this substance as a pill-coating. For this purpose the salol is gently heated to its melting-point and the pills rolled in the liquid. The intention is that the pill shall dissolve in the duodenum. A coating of ·02 to ·03 gramme is sufficient for each pill. They should not be taken with substances such as oil or hot foods, which may dissolve the coating.

### GALL-SOAP.

| | Parts |
|---|---|
| Extract of quillaya-bark | 50 |
| Borax | 50 |

Rub together till a fine powder is obtained, then add 20 parts of fresh ox-gall, and rub well together, then add 75 parts of any good domestic soap. Knead into a stiff mass, and divide into pieces of convenient size.

### DEODORISED ALCOHOL.

A DEODORISED alcohol for perfumery may be prepared as follows:—

| | |
|---|---|
| Alcohol | 1 gallon |
| Quicklime | ℥ss. |
| Powdered alum | ʒij. |
| Carbo ligni purif. | ℥j. |

Mix the powders, and add to the alcohol; allow to stand a few days, shaking occasionally, and filter through paper.

### MIGRAINE.

DR. FREUDENBERG, in *La Semaine Médicale*, advises the use of the following formula in migraine:—

| | |
|---|---|
| Mur. morphine | gr. ¼ |
| Salicylate soda | gr. iv. |
| Phenacetine | gr. lv. |

Sufficient for one powder. One or two, according to circumstances.

Dr. Tchetius (*ibid.*) recommends the following:—

| | |
|---|---|
| Saccharine | gr. ½ |
| Mur. quinine | gr. j. |
| Salicylate soda | gr. ilss. |
| Phenacetine | gr. xlv. |

Sufficient for ten capsules. One at a dose.

### SIMPLE PROCESS FOR BRONZING.

MR. MONDIT, of Caen, publishes a formula which is said to be capable of giving every tone from bronze to antique green, according to the length of time that the copper is allowed to remain in contact with the liquid. After the piece has been scoured, it is covered with the following mixture by means of a brush:—

| | Parts |
|---|---|
| Castor oil | 20 |
| Alcohol | 80 |
| Soft soap | 40 |
| Water | 40 |

The mixture is left on till the required shade is obtained, then dried with hot sawdust and coated with a very dilute varnish.

### A RAINBOW SHOW-BOTTLE.

To prepare this, first ascertain the capacity of the bottle and divide by 7, to find the volume of liquid required for each layer. Then take sulphuric acid to begin with, and tint it blue by the addition of indigo sulphate. For the next layer use chloroform; for the third use glycerine tinted with caramel; for the fourth, castor oil coloured with alkanet-root; for the fifth, proof spirit tinted with green aniline; sixth, cod-liver oil, containing 1 part of oil of turpentine to 99 of the fish oil; seventh, rectified spirit tinted with violet aniline. Each of these should be poured in through a tube, the lower point of which should be directed against the side of the bottle, so that the liquid may trickle gently over the surface of the layer below it.—*National Druggist.*

### IODINE OINTMENT.

S. A. MCDONNELL, Ph.G., recommends the use of a gentle heat in the preparation of this ointment. The pharmacopœial method is objectionable for two reasons—firstly, it is only with great difficulty that the iodine can be got into solution by the help of the iodide of potassium; and, secondly, the use of iodide of potassium causes hard, minute crystals to separate out as soon as the water is vaporised, and these crystals are very irritating to a tender skin. By using heat to dissolve the iodine in the fat, the use of the iodide is obviated, while no loss of iodine occurs through volatilisation, the temperature of the melting-point of lard (35° C.) not being high enough to effect any appreciable loss. A distinct saving of time is also effected, and the product is not so liable to oxidation as when water is used.

GOLD MEDALS 1884-1885-1886-1888.

"SANITAS"

DISINFECTANTS

FRAGRANT—NON-POISONOUS—DO NOT STAIN.

Kingzett's Sulphur Candles & Sulphugators,
Preserved Peroxide of Hydrogen.
Mercuric Bactericide, Eucalyptus Oils.

Price Lists and Pamphlets Free.

THE SANITAS CO., LIM., Bethnal Green, LONDON, E.

ELLIS'S TABLE WATERS

"Well charged with gas, and in every respect of the very best quality for drinking."—Percy F. Frankland, B.Sc., F.C.S.

"Typically Perfect."—*Medical Press.*

Sole Address— [1]
R. ELLIS & SON, RUTHIN, NORTH WALES.
London Agents: W. BEST & SONS, Henrietta Street, Cavendish Square

THE OLDEST ENGLISH & AMERICAN CHEMIST in PARIS (founded 1808)
BOISSY late GALLOIS
2, Place Vendôme, Corner of rue St-Honoré
would undertake one or two additional agencies for patent Medicines, Sundries, etc.
Special connexion amongst Doctors in Paris & Provinces.

PATENTS, DESIGNS, & TRADE MARKS.

Searches effected through the Classified Volumes of the Society free of charge. Registrations throughout the world. Advice as to infringements preliminary to litigation. Apply—
TRADE MARK SOCIETY, LIMITED,
1 FURNIVAL STREET, E.C.

ABSOLUTELY PURE ESSENTIAL OILS.
A. M. TODD'S
DOUBLE REFINED PEPPERMINT, &c.

*See Advertisement, page* 14 (*bottom folio*).

SEIDLITZ POWDERS

HAND WEIGHED
HOWARD'S SEIDLITZ
ENGLISH ACID
5 gross, 4/8 per gross.
*Special Terms quantity.*

4/6 per Gross. B.P.

HORA & CO., 47 Minories, LONDON.

MOSS'S MISCIBLE CASCARA

Mixes with Water.
Certain and Pleasant.

"A great Improvement."

(REGISTERED)

"The best obtainable." Dr. Gilcreist, Omagh.

PLEASE SEND FOR PRICE LIST.

Through any Wholesale House, or from the ONLY MAKERS—
JOHN MOSS & COMPANY,
Galen Works, New Cross Road, LONDON, S.E.

TRADE MARK REGISTRATIONS.
(Home, Foreign, and Colonial.)
MODERATE INCLUSIVE FEES
SEARCHES. REPORTS. DESIGNS.
T. B. BROWNE, 163 Queen Victoria St., E.C.

CHASSAING & CO.'S PEPSIN, PEPTONE, PANCREATINE
6 Avenue Victoria, PARIS.
*Sole Agents for the United Kingdom, Fuerst Brothers, 17 Philpot Lane, London, E.C.*
(See Advert., Fourth No. of this Journal each month.)

IMPORTANT TO CHEMISTS.
NOVEL "COUNTER ADJUNCT"
FOR SEPTEMBER.
See page 47.
EVANS, LESCHER & WEBB, LONDON. | EVANS, SONS & CO., LIVERPOOL.
*Savaresse's Sandal Wood Oil Capsules are now in White Enamelled Metal Boxes*

British Medical Journal.

"We have compared Tinctures, &c., made from Fletcher's Concentrated Liquors with similar preparations made exactly according to the B. P. methods, and we find that they are practically identical in character."

# Editorial Comments.

## POISONOUS PROPRIETARY MEDICINES.

We have authority for stating that the defendants in the case of the Pharmaceutical Society *v.* Armson have decided

that they will not carry the litigation in that matter any urther. They intimate that they may fight again if a particularly good case offers itself, but they seem to have met with so little encouragement in this action in their journeyings from the County Court to the Court of Appeal that they are willing to take the opinion of the House of Lords as read.

Practically the contest is over. No persons other than registered chemists and druggists may sell or keep open shop for selling proprietary medicines containing an appreciable quantity of poison. And we have it laid down as an established fact that the proportion of one-tenth of a grain of morphia in an ounce bottle of a mixture the dose of which is one teaspoonful is, in the eye of the law, sufficient to make the preparation poisonous. Against this, the unregistered men have secured the decision in the Pharmaceutical Society *v.* Delve case, that a proportion of morphia vaguely described as "perhaps infinitesimal" does not bring the mixture within the jurisdiction of the Pharmacy Act. The Courts have refused to admit the contention of the Pharmaceutical Society that the proof of the presence of some scheduled poison in a mixture, no matter what the quantity, is in itself sufficient evidence to make the mixture a poison. We do not clearly understand the logic of the legal ruling: it seems more like making law than interpreting a statute. Parliament has told the Judges categorically what in its opinion are poisons, and we cannot see on what ground they call for evidence that these are poisonous. But generally their interpretation is not an unsatisfactory result for chemists. It preserves ultra-conscientious pharmacists from the absurdity of putting a poison label on a compound containing a little spirit of chloroform, for instance, and it allows the exercise of common sense to a limited degree. Meanwhile the definition of a poisonous quantity is indicated with sufficient stringency. The inventor of a medicinal compound who wishes to give less than the one-eightieth of a grain of morphia as an adult dose must be very eager to infringe the law. If his medicine contain as much as that, unregistered persons may not sell it, and it has to be labelled poison; and it is not at all certain that a compound containing an even smaller proportion does not equally come within the same definition. An infinitesimal proportion, whatever that may be, is the utmost permitted to be sold by anybody but chemists.

The history of this litigation concerning poisons in proprietary medicines is a curious episode in connection with the Pharmacy Act. For nearly twenty years after that Act was passed no serious question in regard to the meaning of the term "patent medicines," as used in section 16 of the Pharmacy Act, was raised. The absurdity of restricting the sale of poisons when labelled with their proper names, but removing all limitations when put up with a fancy name, in a tempting form, and with a Government stamp affixed, was apparent to all chemists, and was often commented upon. But the exemption of the "making and dealing in patent medicines" was always regarded with a kind of superstitious reverence. There was a notion abroad that this had been inserted as the result of a compromise or compact, but, singularly enough, no evidence of any negotiations between the promoters of the Pharmacy Act and the patent medicine proprietors has been brought to light. As a matter of fact, the exemption seems to have been simply lifted from an old Bill which the Pharmaceutical Society drafted and submitted to the Home Secretary as far back as 1846. How it got into that Bill we have no means of knowing.

But there was never any fixed theory as to the meaning of the term "patent medicine." The Pharmaceutical Society sued more than one unregistered person for penalties for trying to evade the Act by selling laudanum with a medicine-stamp attached, and calling it a patent medicine; and in 1882 the Treasury prosecuted the maker of a solution of chloral for selling that preparation without a poison label. Of course, it was always clear that the exemption as regards making and dealing in patent medicines did not apply to the labelling, but it was almost universally held to have that effect. Admittedly, the first clear indication of the exact limitation of the exemption was given by Mr. Alpe in his "Handy-book of Medicine-stamp Duty," published by us in 1887. Mr. Alpe said:—

> The meaning of the technical phrase "patent medicines" has not yet been the subject of judicial interpretation; but there can be scarcely any doubt that it covers only those preparations which are strictly patent medicines—that is, medicines sold under the authority of letters patent—and that it does not include other dutiable medicines which are only called patent medicines in the loosest popular language.

This view has been confirmed to the letter; and more than that. In support of his opinion Mr. Alpe adduced an explanatory phrase which occurs in the Sale of Food and Drugs Act, which expressly distinguishes between patent medicines and proprietary medicines. This illustration of the mind of the Legislature was quoted by Mr. Crump, Q.C., when the Armson case came before the Court of Appeal, and was referred to by all the three Judges, who were evidently impressed by the analogy, so that the first word and the last in this contest have been almost identical.

We need not now refer fully to the services of Mr. Braxton Hicks, the Coroner, and of Mr. Ernest Hart, as Chairman of the Parliamentary Committee of the British Medical Association, in pressing for a strict enforcement of the Pharmacy Act in regard to poisonous proprietary medicines; but we ought to recognise, in passing, the combination of prudence and vigour which has characterised the proceedings of the Pharmaceutical Society in the exercise of their exclusive powers in stopping the sale of such medicines by unauthorised persons. In this matter the Society may always be pretty sure of the sympathy of the representatives of the public, which entertains a natural and wholesome dread of being accidentally poisoned. The inexplicable passion evinced by a number of grocers to supply arsenic as well as sugar, and morphia in addition to currants, will need the check of five-pound penalties for some time to come before it is finally disposed of, and for this reason we hope the Society will not relax their efforts, either in this direction or in that of opposing incipient patents which would have the effect of legalising the sale of poisons by unregistered persons. The sale of poisons, as we have often said, is the essential of the chemist and druggist's business from a legislative point of view. Except for that there would never have been any registration or anything like legislative protection, and it is both the duty and the interest of chemists to maintain their rights in this respect rigorously.

---

## THE OTTO OF ROSE CROP.

It is now nearly three months since the distillation of otto of rose took place in Bulgaria, but the standard price of the new season's oil has not yet been settled. In no previous season on record has that great event in the rose oil business been deferred quite so long. The cause of the delay, as our Bulgarian correspondent has pointed out more than once, lies in the clever manœuvring of a few large speculators, who are believed to have a considerable stock of last year's oil on hand, and are naturally anxious to rid themselves of this load while yet the exceedingly high price of the 1893

season holds good, at any rate, nominally, especially as the signs of the market point to a considerable reduction in value in the near future, unless the same houses who cornered the market last year with so much success should once more be able to out-general their opponents and secure control of the bulk of the crop. The "fixing of the price" is always a laborious business—a kind of chess-play between the small distillers, whose object naturally is to secure the highest price possible for the few pounds of otto that represent the whole of their crop, and the agents of the larger firms of distillers and dealers, Bulgarian and Turkish, through whose intermediary the otto is brought into commerce. For many years a large firm of merchants and bankers in Constantinople has played the leading part in this annual comedy of finessing, and when, after much beating about the bush, that house at last declares its wholesale selling price of otto, all the other firms take its quotation as their guide and offer, either at the same price, or at a higher or lower figure, according to the acknowledged reputation of their oil. In 1893 the crop of otto was admittedly much below the average. Its exact yield is difficult to ascertain, as nearly all firms connected with the trade mention different totals, but it was probably close on 2,000 kilos. The largest crop of recent years was in 1887, when, according to official figures, 4,360 kilos. were brought to market; the smallest that of 1871, which produced only 1,500 kilos. of otto. In 1893 a few spectators dexterously improved the shining hour by securing control of the bulk of the small yield, and afterwards suddenly advancing their quotation to a dangerously high figure. At the outset the consumers fought shy of paying this price, which was very much in excess of the average figure of recent years, but gradually they were forced to purchase upon the new basis, and with every fresh order placed at the elevated figure the chance of breaking the market grew less, the stock becoming easier of control in proportion as it lessened. The problems now confronting the astute speculators are, firstly, to hold at bay the numerous small distillers, who are mostly in a state of chronic want of cash, while they liquidate as much as possible of their surplus stock; and, secondly, to seize the right moment for effecting a transaction upon the same basis as last year—*i.e.*, securing control of the bulk of the new otto, while keeping a number of other dealers shut out from participation in the plunder.

Had the present year's crop again been a very small one, this plan of campaign would have been easier of accomplishment than it is now. Very few persons interested in the article, either in Bulgaria or among the large European and American consumers, believe in the possibility of the maintenance of the present range of prices, and until the new standard quotation is definitely announced, few buyers will care to invest in the costly and, commercially, very capricious drug. Leaving alone the chances of a continued successful bull-speculation in otto of rose, it is certainly not to the interest of the Bulgarian rose-industry as a whole that the consumers should be kept in suspense for a prolonged period every season, while a handful of local market-riggers fight out their battles, and block the healthy flow of unrestricted trade. Years ago, when the otto-of-rose industry seemed secure for all time, and no substitutes or foreign competition were so much as dreamed of, the Turkish dealers could direct the market pretty much as they pleased, and the consumer had no other alternative but to submit to their dictation, or go without the oil.

But these simple conditions no longer prevail. Rose-plantations have been started outside Bulgaria, seemingly with success, and chemical science is approaching nearer and nearer to the solution of the problem of a synthetic otto of rose. Geraniol, known for some time as an active constituent of many essential oils, has, within the last year, been ascertained to be the principal constituent of otto of rose also, and it is now announced that another body, to which the somewhat fanciful name of reuniol has been given by its discoverers, and which is said to be present in different varieties of oil of geranium, approaches still closer to the distinctive odour of the rose than geraniol itself.

Without entering into the respective merits of these substances, or into the question whether either of them will be found a practical substitute for otto of rose, we are justified, we think, in pointing out that at a time when a number of eminent chemists are known to be engaged in unravelling the mysteries which still surround the identity and the artificial imitation of the rose odour, is ill-chosen for the engineering of corners avowedly put on foot for the purpose of keeping otto of rose at a fancy price. Instead of lending themselves to these machinations, responsible Bulgarian distillers and merchants would be better employed in urging upon their Government the necessity of passing without delay the long pending Act against the adulteration of otto of rose, and in giving their co-operation towards the enforcement of that law when once it has been placed upon the statute-book of the country.

---

## THE LIQUEFACTION OF HYDROGEN.

An interesting article on experiments at the Royal Institution, having for their object the liquefaction of hydrogen, was communicated to the *Times* of September 1. We gather from it that Professor Dewar, who is working now in this direction, is within measurable distance of accomplishing the liquefaction of this gas—a feat which has hitherto baffled all experimenters. It is true that all the text-books on physics and chemistry state the reverse, but the experiments of Cailletet and Pictet, in the course of which it was stated that hydrogen had been liquefied, and even in one case solidified, are not accepted as conclusive by physicists generally. In the article referred to, the efforts of physicists to approach the zero of temperature are compared to the attempts which are being made to reach the North Pole, and in neither case can the anticipated results be considered as likely to prove of practical value. "The North Pole," the writer says, "will not be the signal-post of a trade-route, and the condensers of our engines are never likely to reach the zero of temperature. If the latter could be obtained, however, we should then completely transform heat into mechanical power instead of getting only 10 per cent. converted by our present means of working." The only way in which the absolute zero can be approached is by the liquefaction of hydrogen. Hitherto liquid air has been the agent employed, but with this a working temperature is obtained of only about $-200°$ C., and a temperature of 73° lower has to be reached ere we arrive at that point "at which gaseous particles would give no pressure and have no volume."

The liquefaction of a gas depends of course on our being able to cool it below its critical point, for unless this point is reached no amount of pressure, according to the experiments of Andrews, will suffice for its liquefaction. Hydrogen has a critical point of $-240°$ C., and to reach this point the evaporation of liquid air is almost useless. Professor Dewar has consequently had to look in other directions for a gas or mixture of gases which will give a liquid having a lower boiling-point. This has been found in a mixture of hydrogen and nitrogen, which has a critical point of $-200°$ C., nearly 50° C. lower than that of nitrogen alone. In

order to effect the liquefaction of this mixture, Professor Dewar has had to fall back on the old method of Cailletet owing to his inability to obtain a temperature lower than −200° C. This consists of subjecting the gases to enormous pressure at a temperature of −200° C. and then allowing the resulting liquid to expand, when an extremely low temperature is obtained—such that when hydrogen containing only 2 to 5 per cent. of air is so treated the result is a white solid material (solid air) along with a "clear liquid of low density which is so exceedingly volatile that no known device for collecting it has been successful." Professor Dewar has not declared this liquid to be hydrogen, though what else it can be it is impossible to say. The experiments are still in progress but success will depend very much on the question of outlay, the cost of liquefying any amount of the gas being at least twenty times the cost of liquefying air. In order to attain even so small a result as has already been obtained it is necessary to liquefy and expand more than 1 lb. weight, or about 7 cubic yards, of hydrogen gas.

## LEGISLATIVE BOTCHERS AND THEIR WORK.

The ink upon the Wilson (or, as it is now called, the Gorman) tariff is scarcely dry before errors, misprints, and blunders in punctuation are discovered in the wretched thing by the bushel. The Act occupies twenty-one pages of print. Within a few days of its passing thirty-one errors were spotted in it, and a further list of testimonies to the competency of its draughtsmen is expected when the document has been fairly digested. Three of the errors, says the *O. P. & D. Reporter*, are very serious ones, not counting the section that authorises the payment of a rebate on the tax paid on alcohol used in the arts and sciences. None of the errors can be corrected without a joint resolution of the two houses. Here are some of the blunders:—

Paragraph 24, of the chemical schedule, makes sulphate of magnesia, or Epsom salts, dutiable at ½ c. per lb. This was an item added by the Senate, which omitted to strike from the free-list paragraph 542, which reads: "Magnesia, sulphate of, or Epsom salts." The two paragraphs are in opposition, but the Treasury Department will doubtless hold, under section 4, that Epsom salts shall be dutiable, the similitude clause of that section providing that the duty shall be assessed according to the highest rate.

Paragraph 36, the first of the glassware, has what appears to be a very serious error. It applies to bottles, vials, &c., the closing part of the paragraph having been intended to read: "all other plain, green and coloured, moulded or pressed, and flint and lime glassware, 40 per cent. ad valorem." Instead of this, however, the "and" between "flint" and "lime" became transposed, and the rate of 40 per cent. is imposed upon "all other . . . and flint, lime and glassware," the effect being to impose this rate on all other glassware pure and simple, instead of flint and lime glassware, as was the intention.

By the omission of a comma the Senate has lifted bodily from the free list the products of coal tar, not colours or dyes.

Paragraph 443, in the free list of the House Bill, reads: "Coal tar, crude and all preparations and products of coal tar, not colours or dyes, not especially provided for in this Act." The Senate inserted, after the word "preparations," the clause "except medicinal coal-tar preparations," which it had put on the dutiable list; but in so doing omitted the comma, and the exceptions now read "except medicinal coal-tar preparations and products of coal tar, &c." Among the products of coal tar the more important are dead oil, pitch, and benzole. These should have come in free, but by the omission of the comma they are all transferred to the dutiable list.

These "errors" in the chemical schedules are bad enough, but, so far as their effect upon the revenue of the country is concerned, they will be as nothing compared to the punctuation blunder which puts diamonds, quite by inadvertence, upon the free list. It has been decided that when an article is named specifically it is lifted from the provisions of a general class to which it might otherwise belong. "Precious stones of all kinds," under the language of paragraph 338, if cut, but not set, are dutiable at 35 per cent.; set, 30 per cent.; if uncut, 10 per cent. Diamonds would come under this classification had they not been designated by name in the free list. It came about in this way: The House Bill free list read: "Glaziers' and engravers' diamonds not set," &c. The Senate struck out the word "glaziers'," so as to insert "miners'" before it.

In doing so, they punctuated the paragraph so that it now reads: "Diamonds; miners', glaziers', and engravers' diamonds not set," &c. The use of the semicolon instead of the colon is held by experts to indicate that diamonds themselves, as a class, not set, in addition to those for use in certain trades, as was intended, are admitted free.

## THE SALE OF CHEMICAL PREPARATIONS.

Under this heading the *Optician* gives its readers, principally consisting of photographers and instrument-dealers, some advice on the best means to adopt in order to evade the provisions of the Pharmacy Act with regard to the sale of poisons. "It is simply absurd," says the editor, "to inflict the inconvenience and annoyance of the existing laws upon thousands, and to grossly violate the principles of free trade. The provisions of the Pharmacy Act should have been expressly restricted to drugs or chemicals dispensed for medicinal use." As things stand, the *Optician* argues, the non-pharmaceutical chemist is morally justified in evading this law by every means possible. In many cases, indeed, he may safely ignore the existence of this trade-union-administered law by taking advantage of the exemption as to "wholesale" dealing. Under this exemption, according to the *Optician*, unregistered persons may legally supply any chemical whatever to a *professional* photographer. The chemical analyst again, who sells his report, need never patronise a druggist pure and simple. The law is not quite so definite as our youthful friend seems to imagine, but we quote the advice principally to urge the "druggist pure and simple" to do the business as well as, or better than, his impure rival. Why should he not?

## MODERN GUILDS.

Some philosophers deny that we are progressing, and aver that we are only working round to old ideals. In old times the art and mystery of any trade was a sacred thing, not to be learned in a hurry, and hedged round by protective statutes when it had been acquired. Official registers are our nineteenth-century equivalents for the Guilds of Tudor and Stuart times. Already the doctors, the druggists, the dentists, the lawyers, and the veterinary surgeons are registered and, in the fond imagination of the public, protected. The latest official register to be added to this list is that of the chimney-sweeps. An Act passed in the last Session of Parliament, at the instigation of Mr. Labouchere, orders a compulsory registration of these useful, if not ornamental, gentlemen. Now is the time, therefore, for limited companies and stores to show once more that laws applicable to ordinary persons do not concern them, by adding a chimney-sweeping department to their other services. Bills to create three other registers were also introduced into the House of Commons last Session, but broke down in the struggle for existence. Those applied to plumbers, patent-agents, and itinerant street-musicians. These may be expected to be with us shortly.

# Drugs and Diseases.

## ERYTHEMA (REDNESS).

Not exactly inflammation but a feeble attempt at it, a redness of the skin. It may occur on any part of the skin when deranged sympathetic nerves relax the capillary blood-vessels and overflow them with blood.

Erythema is a frequent outcome of a deranged digestion or lax nerves; flushing of the face after meals is a common symptom, especially at woman's change of life.

The worst and most persistent form of erythema is called erythema nodosum. Painful oval red spots of fair size appear on the front of the legs and persist for some weeks.

### Treatment.

**Zinc Valerianate.**—The flushing heats after meals are generally very troublesome and annoying to the sufferer. The best remedy is zinc valerianate gr. ij. t.d.s. When it fails, ammon. bromide ʒss. night and morning, or eucalyptol ♏v. on sugar, should have a trial.

**Quinine.**—Tonics containing quinine are generally best in the severe forms, such as erythema nodosum, provided there is absence of fever. Chamomile fomentations can be used with it if the pain is troublesome.

## SCROFULA.

Consumption is scrofula affecting the lung, but scrofula may attack any other part of the body—the bones, the glands, and the joints. Scrofula is deposition of tubercle-microbes in a part, which cause it to increase in size and form a hard, indolent swelling. The glands of the neck are the most usual sites for the germs to grow in. This disease attacks children worst, and may be inherited or acquired. Spring and autumn are its favourite seasons, and acute fevers bring it out if latent. Spinal curvature is due to scrofula of the vertebræ. White swelling is scrofula of the joints. Very enlarged glands and indolent ulcerations or abscesses signify scrofula of the glands.

### Treatment.

**Sea-air.**—In the early stages, residence at the seaside, combined with judicious sea-bathing, will generally work wonders. It may even completely annul the tendency. Margate has a splendid reputation for scrofulous affections.

**Iodine.**—The benefits of sea-air and sea-water are commonly attributed to iodine, but it is far more probable that the chlorides of salt vapour and the greater preponderance of ozone have more telling effect, being relatively in considerable quantities. Still, iodine is a remedy having undoubted power in cases of scrofula. The tincture or liniment can be used locally as paints. Potass. iodidi and syr. ferri iodidi can be given internally at the same time. Burnt sponge gr. x. to gr. xx. was formerly much used as a remedy for scrofulous affections. It contains a small percentage of iodine.

**Cod-liver Oil.**—Those who suffer from scrofula are not necessarily thin, but their constitutions are weakly, necessitating support. Cod-liver oil or fats of a similar kind possess marked restorative qualities. By improving the quality of the blood and strengthening the nervous system, the organism is put into a position to throw off this disease. Ol. morrhuæ is especially necessary in scrofula affecting the ear, eye, or nose.

**Sulphur.**—Many inveterate cases which resist other drugs yield promptly to sulphur: gr. iij. t.d.s. is the dose. It must be continued for a length of time, and, should it produce colic or diarrhœa, a carminative ought to be given with it. The internal treatment by sulphur may be combined with external applications, as with iodine. The best way to apply sulphur outwardly is to make a paste of lac sulphuris with water and apply it to the part on oiled silk or gutta-percha tissue, kept in place by a bandage. The influence of this is especially manifest in scrofulous disease of joints. For sores, abscesses, or ulcerating glands, the sulphides in doses of gr. $\frac{1}{10}$ to gr. ss. t.d.s. may act better than sulphur, but not always so.

**Arsenic.**—When scrofulous glands require rousing, to stimulate them to healthy action, arsenic is one of the best drugs to give, in doses of ♏iij. to ♏viij. of liquor after food. Arsenic is a poison to the system, and the body attempts to get rid of it through the excretory organs. The tubercular virus is driven out too. The introduction of one poison to get rid of another is one of the objects of certain remedies which are called alteratives.

**Phosphorus.**—To improve vitality and give the body power to drive out or throw off disease, resort should be had to phosphorus—the pure drug in doses of gr. $\frac{1}{50}$ to gr. $\frac{1}{30}$ in pill t.d.s. after food, or the hypophosphites in doses of gr. v. to gr. x. or more.

**Calcium Chloride.**—Another exceedingly efficacious remedy in most forms of scrofula is chloride of calcium in doses of gr. x. to gr. xx. t.d.s. This salt is most helpful in scrofulous affections of the nose, ears, and eyes. The lime is of great aid to a growing system, and the chlorine supplies a necessary natural disinfectant.

**Mercury.**—It is a common practice in cases of white swelling to wrap the joint in what is called Scott's dressing. Ung. hydrarg. co. is spread on strips of lint, which are applied in rotation. Over this adhesive plaster in strips is adjusted. Scott's dressing is most beneficial in the early stages of the disease.

**Soft Soap.**—In mesenteric disease or consumption of the bowels, in caries or inflammation of bone, and for enlarged glands, soft soap, combined with gentle friction, is a most useful resolvent.

**Iodoform.**—A usual remedy to apply to the indolent ulcerations of scrofula to promote healing is iodoform ointment. The same drug can be sprinkled on parts which are hardly accessible to a salve. It has lately been suggested to inject iodoform emulsion into chronic abscesses and scrofulous glands with due antiseptic precautions, and remarkable results are said to have been obtained.

**Galvanism.**—Where usual remedies fail, strong electric currents passed through the part should have a careful trial. General or local massage and compression of indolent swellings are also of considerable absorbent and resolvent power.

## SMALLPOX.

An attack of smallpox comes on abruptly, with high fever, severe pain in the back, headache, and vomiting. The intensity of these symptoms is a mark of the kind of time the patient is going to have. In a mild case the eruption-spots are distinct. In a severe form they are confluent, running into one another to form one awful mass of conglomerate eruption.

### Treatment.

A smallpox patient should be kept in bed in a well-ventilated darkened room or ward. The more air he has the better will he progress. The room and everything connected with the patient should be freely plied with disinfectants, partly to keep down the sickening odour, chiefly to destroy contagion. Occasional change of posture tends to prevent bed-sores. When the eruption begins to itch, the hands should be muffled or tied, especially during sleep. Scratching is the main cause of excessive pitting. Clothing and contaminated linen should either be burnt or thoroughly disinfected by boiling in some liquid antiseptic.

**Diet.**—The diet should be light, suitable to a fever-patient—supporting, because the powers of life are weakened.

**Antiseptic Treatment.**—This being an acute microbic disease, the antiseptic treatment, both internally and externally, should be resorted to freely from the first to mitigate the severity of the symptoms, and to disinfect the human body when it most wants disinfecting. The two remedies which hold out the most hope of steering the patient clear of disfigurement are sulphur and mercury.

*Sulphur.*—It is related of the Dr. Jenner who introduced vaccination that he once went to vaccinate thirty soldiers. None of them took. It was subsequently discovered that they were taking sulphur to cure them of the itch, and this was the reason why the vaccine was abortive. To have decided effect in smallpox, sulphur should be given in doses

of gr. iij. hourly in syr. aurant, and continued until the dangerous period has passed. The face also should be freely dusted with flowers of sulphur, to secure a local effect. If sulphur is used afterwards to disinfect the rooms, why not start with the patients first, and disinfect them first? The room can wait—it has not life, and life is precious.

*Mercury.*—The solution of the perchloride of mercury in iodide of potassium is probably the best form to administer this powerful germicide, but other forms of mercury would have the same effect. This mineral would necessarily require more careful watching than sulphur, owing to its being an active poison to the economy, while sulphur is a disinfectant natural to the body and always in it, except when fevers use it all up. The following would be a good formula to use:—

| | |
|---|---|
| Liq. hydrarg. perchlor. .. .. .. | ʒiv. |
| Potass. iodidi .. .. .. .. .. | gr. xl. |
| Aquæ ad .. .. .. .. .. | ℥viij. |

ʒj. every two hours.

At the same time, ung. hydrarg., ung. calomel (ʒj. to ℥j.), or calomel as a dusting-powder can be applied locally.

**Remedies to Prevent Pitting.**—On the third or fourth day of the fever the smallpox eruption usually appears. It is in the form of small, hard pimples, feeling like shot under the skin. These gradually increase in size. At first they are watery (vesicles). Then they become filled with matter (pustules). Lastly they break down and become crusts, and the scars that they leave behind are called pits. To avoid pitting means to prevent the pustules from breaking, and many remedies to have this effect have been suggested. Keeping the patient in a darkened room or with a mask on is a great help. Vesicles can be punctured with a needle dipped in gr. xx. to ʒj. solution of nitrate of silver. Collodion, carron-oil, a mixture of zinc oxide and cream, or ung. zinci oxidi, by allaying itching and protecting the parts, would tend to prevent scratching and afford protection from the atmosphere. Such remedies could even be used in conjunction with an antiseptic treatment.

**Quinine.**—An excellent remedy to restore strength when the eruption is subsiding is tinct. cinchonæ ʒj. t.d.s. in water, or—

| | |
|---|---|
| Quinini sulphatis .. .. .. .. | gr. j. |
| Ac. hydrobromic. dil. .. .. .. | ♏xx. |
| Tinct. aurant. .. .. .. .. | ♏x. |
| Aquæ .. .. .. .. .. .. | ℥j. |

T.d.s.

## VACCINATION.

### MANAGEMENT.

**Arm-shield.**—The vaccination pocks are generally at their height on or about the eighth day. The child is apt to be a little fretful for a day or so. A shield, by protecting the parts from the friction of the clothing, helps to make baby more contented. Parents should be strongly advised not to use an old shield, especially a borrowed one.

**Ung. Zinci.**—If there be more inflammation than ordinary, a little zinc ointment smeared on will generally suffice to abate it. Should it not do so, a little iodoform or aristol can be sprinkled on with benefit.

## VOMITING (SYMPATHETIC).

THE various structures of the body have direct sympathies one with another. Irritation or morbid sensibility of one organ will largely influence the action of an entirely distinct portion of the economy.

The human body is, as it were, covered with a network of electric wires, the nerves, along which messages are constantly transmitted. If the news is of a pleasant description, it is a sign of health. If disagreeable, it is an indication of disease or rumours of disease. When the brain itself has been injured or is suffering from disease, as in meningitis, it makes things unpleasant all round. Among other symptoms that it induces is persistent vomiting.

The impression of very acute pain of any kind, particularly that resulting from the passage of gall-stones or renal calculi, is sent on to the brain. The nerve-centres lose their coolness and send on urgent messages, which put in motion the machinery of vomiting.

When the womb is inflamed or enlarging from natural causes during pregnancy, the uterine nerves are stretched and irritated, and the stomach ejects its contents in consequence.

Lastly, the severe shaking and rolling to which the brain, the eyes, and the sensitive ossicles of the sense of hearing are subjected from the unaccustomed movements of a carriage or of a vessel at sea, induces that highly unpleasant and persistent form of vomiting known as sea-sickness.

### TREATMENT.

**Dietary Articles.**—A glass of beer twice a day is an aid to treatment in vomiting of pregnancy and in the sea-sickness of short voyages. Hot black coffee is a good beverage, combined with mustard-leaf to the pit of the stomach, for nervous vomiting.

**Antipyrin** gr. xv. to gr. xx., at bedtime, retards and greatly diminishes vomiting of pregnancy. It should be persevered with for a few days. Phenacetin is equal effectual.

**Blisters** to the spine between the shoulders act most beneficially in many cases of nervous origin, especially that of pregnancy.

**Cerium** is a much-used remedy. The oxalate may be given as a tabloid or powder, gr. v., or the following mixture:—

| | |
|---|---|
| Cerii oxalatis .. .. .. .. | gr. vj. |
| Tinct. nucis vom. .. .. .. .. | ♏xv. |
| Acid. hydrocyanic. P.B. .. .. .. | ♏iv. |
| Spt. chloroformi .. .. .. .. | ♏xv. |
| Aquæ ad .. .. .. .. .. | ʒj. |

℥ss. to ʒj. when necessary.

**Chlorobrom**, a combination of chloralamide and potassium bromide, is very efficacious in sea-sickness.

**Ingluvin** is asserted to be a specific for the vomiting of pregnancy or dyspepsia, gr. v. to gr. xx., given in powder form before food. It owes its efficacy to a bitter principle, and not to any ferment.

**Belt.**—Firm pressure on the abdomen by means of a flannel or other belt frequently abates sympathetic vomiting.

**Tinct. Iodi** ♏v. in water, taken internally, is said to cure the most inveterate cases of vomiting of pregnancy or *mal-de-mer*.

**Potassium Bromide** is a most efficacious remedy in severe vomiting of pregnancy where the ovaries are congested. Full doses of ʒss. or more are required. It may be combined with chloral hydrate, gr. xv. to gr. xxx., to induce sleep. This is sometimes done in cases of severe sea-sickness.

**Morphia.**—An opium or morphia suppository is an excellent adjunct to treatment in severe uterine vomiting accompanied by much pain.

**Nitroglycerine** or trinitrine tabloids are of use in sea-sickness.

**Cocaine Hydrochlorate** internally, gr. $\frac{1}{6}$ to gr. j., allays nervous irritability of the stomach walls, and is said to cure sea-sickness in consequence.

**Regular Studied Breathing.**—It is asserted that a person who is susceptible to sea-sickness breathes irregularly and in gasps. If he strives to respire naturally at the rate of about eighteen respirations to the minute the nausea will quickly abate.

**Menthol** is efficacious in pregnancy vomiting, and may be given thus:—

| | |
|---|---|
| Menthol .. .. .. .. .. | gr. xv. |
| S.V.R. .. .. .. .. .. .. | ℥vj. |
| Glycerine vel. mucil. trag... .. .. | q.s. |
| Aquæ destill. ad .. .. .. .. | ℥vj. |

ʒss. hourly if necessary.

**Quinine Sulphate**, gr. iij., with acid. hydrobromic. dil., has been known to arrest uterine sickness when everything else failed.

## Deaths.

HORNER.—Mr. Edward Horner, J.P., formerly a partner in the firm of Horner & Sons, wholesale druggists, of Mitre Square, E., died on September 1, at his residence, May Place, Crayford, Kent, in his 81st year. Mr. Edward Hornor became a member of the firm as long ago as 1833, when the business was carried on at 20 Bucklersbury, E.C., under the style of Fawkes, Horner & Fawkes, and remained connected with it until about twenty years ago. Since that time he has been living in retirement at Crayford, where he devoted himself to amateur farming. Mr. Horner was at one time chairman of the Metropolitan Gas Company. At the period of the deceased gentleman's entrance into business-life, the East India Company still held quarterly drug-auctions at Garraway's Coffee-house, their officiating salesman being a Mr. Barber, whose name still survives in the Mincing Lane firm of Edward Barber & Co. At that time there were also heavy Customs-duties upon all drugs, and, moreover, the Cromwellian navigation laws, under which goods were allowed to be imported only in British bottoms or in vessels

belonging to the country which produced the goods, were not yet abrogated. In those days a member of the firm was in the habit of visiting Russia every year to buy rhubarb from the Russian Government, that being the period before the opening of the Chinese treaty-ports had diverted this trade to London direct. That the drug-trade in those days showered fortunes upon its votaries may be inferred from the fact that Mr. Webster, the predecessor of Messrs. Horner, died, in 1790, worth 150,000*l.* in personal estate. Mr. Horner rarely appeared in public of late years, almost the last occasion upon which he did so being the Jubilee dinner of the Pharmaceutical Society, on May 27, 1891. At that festival Mr. Horner was the only surviving founder of the Society present, and as such responded to the toast to the Founders of the Pharmaceutical Society. Until quite recently the deceased gentleman used to look in periodically at the Hall of the Salters' Company in the City, of which he was a member of long standing.

SOUL.—On August 31 Caleb Soul, senior partner of the firm of Washington H. Soul & Co., chemists and druggists, Sydney, New South Wales. (By cable.)

WEY.—Mr. Alfred Cox Wey, M.R.C.S., died at Plymouth on August 31. Aged 38. Mr. Wey, who was a member of the Plymouth Borough Council, was the son of a chemist who formerly carried on business in Stonehouse.

"EXCUSE me," said the naturalist, as he again impaled the unhappy beetle, "but you are wandering from the point."

## LONDON DRUG STATISTICS.

THE following figures refer to the movement of some of the principal kinds of drugs at the public warehouses in the Port of London during the first eight months of 1894 and 1893:—

| Article | Stocks | | Imported | | Delivered | |
|---|---|---|---|---|---|---|
| | 1894 | 1893 | 1894 | 1893 | 1894 | 1893 |
| Aloes.....cs, &c. | 4,728 | 5,425 | 1,167 | 1,930 | 2,665 | 2,308 |
| " .....gourds | 3,420 | 624 | 694 | 198 | 530 | 375 |
| Anise, Star .....cs | 514 | 640 | — | 691 | 99 | 290 |
| Arrowroot ....brls | 13 039 | 9,155 | 15,936 | 14 379 | 10.386 | 10,506 |
| " bxs & tins | 2 519 | 1,634 | 3,634 | 2,095 | 2,038 | 894 |
| Balsams....cks, &c. | 1,302 | 1,847 | 576 | 1.154 | 1,217 | 661 |
| Borax .....pkgs | — | 5 | 376 | 20 | 381 | 276 |
| Calumba..... bgs. | 1,125 | 2,105 | 581 | 2,886 | 1,448 | 1,281 |
| Camphor ....pkgs. | 4,097 | 4,529 | 7 851 | 8 702 | 8 637 | 7,688 |
| Cardamoms..cs, &c. | 1,353 | 720 | 2,606 | 1,655 | 1,732 | 1,481 |
| Cinchona bark:— | | | | | | |
| S. American ..cs | 54 | 67 | 20 | 16 | 18 | 5 |
| " bls, &c. | 19,796 | 22,375 | 5,340 | 5,463 | 7,857 | 6 046 |
| E.I. Ceylon, cs | 191 | 158 | 176 | 67 | 87 | 52 |
| and Java ..bls | 14 323 | 17,265 | 14,575 | 25,236 | 14,794 | 23.709 |
| Cocc. Ind. ....bgs | 370 | 374 | 125 | — | 313 | 313 |
| Cream of tartar cks | 44 | 10 | 69 | 2 | 51 | 3 |
| Cubebs .....bgs | 346 | 201 | 420 | 308 | 414 | 426 |
| Dragon's Blood ..cs | 192 | 125 | 266 | 123 | 171 | 116 |
| Galls, China, &c. cs | 1,551 | 1,539 | 2,354 | 2 535 | 1,241 | 1,491 |
| Trky & Prsn..sks | 4,266 | 3,160 | 3,728 | 3,018 | 2,051 | 2,095 |
| Gums— | | | | | | |
| Ammoniacum pgs | 97 | 93 | 1 3 | 13 | 119 | 66 |
| Animi & Copal pkgs | 9,109 | 10 835 | 12,769 | 12,088 | 13 477 | 11,348 |
| Acacia..... " | 11,902 | 15,319 | 11.777 | 17,449 | 13,604 | 14,310 |
| Asafœtida .. " | 334 | 7 | 812 | 350 | 661 | 427 |
| Benzoin .... " | 2.097 | 3 187 | 1.136 | 2.868 | 2,086 | 1,778 |
| Damar..... " | 3,208 | 4 011 | 4,034 | 3,905 | 4,402 | 3,474 |
| Galbanum .. " | 11 | 15 | 1 | 7 | 5 | 23 |
| Gamboge .. " | 233 | 154 | 364 | 218 | 331 | 221 |
| Guaiacum .. " | 140 | 198 | 57 | 88 | 109 | 85 |
| Kino ..... " | 3 | 7 | 7 | 11 | 8 | 6 |
| Kowrie .....tns | 2,846 | 1,244 | 3,014 | 2,249 | 2,430 | 1,941 |
| Mastich ....pkgs | 12 | 25 | 23 | 29 | 33 | 25 |
| Myrrh ..... " | 474 | 387 | 573 | 476 | 319 | 313 |
| Olibanum .. " | 5,652 | 3,932 | 8.969 | 6,222 | 6,001 | 4,644 |
| Sandarach .. " | 949 | 831 | 833 | 679 | 852 | 797 |
| Tragacanth " | 3,658 | 2 187 | 5,025 | 4,715 | 3,191 | 3,326 |
| Ipecacuanha bls&pgs | 1,024 | 1,021 | 1,099 | 1,529 | 879 | 1,219 |
| Jalap .....bls | 235 | 143 | 299 | 415 | 215 | 328 |
| Lac Dye .....chts | 3,034 | 4,868 | — | — | 1,366 | 19 |
| Nux Vomica ..pkgs | 1,184 | 560 | 3,208 | 1,264 | 2,410 | 1,303 |
| Oils— | | | | | | |
| Castor.....cks | 141 | 125 | 403 | 396 | 432 | 406 |
| " .....cs | 2,176 | 2,382 | 2,752 | 3,273 | 2,033 | 2,591 |
| Cocoa-nut ....tns | 483 | 730 | 1,921 | 2.148 | 2.144 | 2,190 |
| Olive ....cks, &c. | 1,390 | 1,294 | 2,934 | 2,446 | 1,888 | 1,668 |
| Palm .....tns | 8 | 6 | 41 | 45 | 36 | 46 |
| Quinine ..... oz. | 2,925,800 | — | 57,500 | — | 141,400 | — |
| Rhubarb .....chts | 561 | 811 | 604 | 728 | 946 | 924 |
| Safflower ..bls, &c. | 108 | 93 | 52 | 101 | 53 | 68 |
| Sarsaparilla ....bls | 254 | 358 | 685 | 915 | 843 | 1,022 |
| Senna .....bls, &c. | 1,971 | 2 941 | 866 | 4,085 | 2,822 | 2,673 |
| Shellac— | | | | | | |
| Orange .. cs | 16,925 | 20,841 | 22 610 | 20,060 | 25,322 | 19,513 |
| Garnet .. " | 4.261 | 6,463 | 7,016 | 8,748 | 6,615 | 6,149 |
| Button .. " | 5,127 | 2,589 | 7,902 | 5,435 | 5,864 | 6,272 |
| Total ....chts | 26,313 | 29,893 | 37,528 | 34,243 | 37,801 | 31,934 |
| Sticklac .....cs. | 1,151 | 1,495 | 2.496 | 4,042 | 2,036 | 2,737 |
| Gambier .....tns | 699 | 501 | 8,124 | 6,395 | 8,226 | 6,400 |
| Cutch ..... " | 2,839 | 2,003 | 2,181 | 1,706 | 1,678 | 1,794 |
| Turmeric, Bengal " | 106 | 95 | 102 | 224 | 145 | 189 |
| Madras, &c. .. " | 481 | 385 | 623 | 635 | 395 | 413 |
| Total ..... | 587 | 480 | 725 | 859 | 540 | 602 |
| Vermilion chts, &c. | 14 | 86 | 12 | 38 | 44 | 20 |
| Wax (bees') bls&sns | 442 | 998 | 3,376 | 2,950 | 3.716 | 2,889 |
| " cks & cs | 550 | 1,231 | 2,081 | 1,832 | 2 587 | 2,159 |
| " (Japan)cs. &c. | 779 | 1.159 | 784 | 1,405 | 858 | 668 |

THE WINK.—Customer (in Kansas drug-store): I should like a small vial of *sporotrichum globuliferum*. Druggist (in hissing whisper): Sh-h-h-h! That's old Waters, the prohibitionist, hack there by the prescription-case. You can't fool him. Customer: What do you mean? I merely asked for some of the fungus used to kill chinch bugs. Druggist: Oh! I thought you were trying to ask for whiskey in a roundabout way!

*Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.*

*It should also be recollected that for many articles the range of quality is very wide.*

---

**42 CANNON STREET, E.C.,** *September* 6

### The Position of the Market.

*London.* The general tone of the drug market has undergone a perceptible improvement lately, and for several varieties of chemicals there is also a better demand. The Bank-rate remains at 2 per cent., but bar silver has risen to $29\frac{13}{16}$*d.* per oz. The following are the principal market changes (most of them set forth in detail below) in the position of goods of pharmaceutical interest:—In the drug-market advances are noted in colocynth, Spanish ergot of rye, Marseilles castor oil, old-crop caraway-seed and senega-root. Italian essential oils are very firm—slightly better rates have been paid for star-anise and cassia oils—senega-root is tending upwards, Japan wax and Chinese galls are rather dearer, and the advance in rhubarb is fully maintained. Mitcham oils keep steady, and there has been no further alteration in cinchona, orris-root, and acacia gums. American and Japanese peppermint oils, however, are falling hand over hand. Quillaia-bark is reported easier, and new caraway-seed also comes lower. In the chemical-market the chief points of interest are advances in cocaine, roll-sulphur, and cream of tartar. Tartaric acid is firm, and so are gallic and tannic acids. Glycerine, permanganate of potassium, carbolic acid, and borax are tending lower; quinine has declined; and camphor may have to be marked down again before long. Chlorate of potash is lower. Among miscellaneous articles, Zanzibar cloves, West Indian tamarinds, benzol, and gambier are dearer, quicksilver and alcohol keep steady, cocoa-butter, shellac, and Cochin ginger are easier.

*New York.* Under date of August 25, the general position of the New York drug-market is described in the following terms:—"There seems to be no doubt but that free alcohol is an accomplished fact, as the situation in Washington is such that there is at present no probability that the amendment to the Tariff Bill placing a tax on alcohol will pass. The trade is very pleased at the outcome, and much good is expected to result. The uncertainty which has surrounded this question for the past few days has had a quieting effect on business, and most orders are of the hand-to-mouth character. East India goods and those from the far East are all higher on account of the sharp advance in silver. The following commodities are all quoted dearer:—Anise oil, cassia oil, coriander-seed, nitrate of silver, ethers, senega-root, rhubarb, shellac, cocoa-butter, and cod-liver oil."

### Java Cinchona Notes.

The Cinchona-Company Tjikembang of Rotterdam and Java worked last year at a net loss of about 770*l.*, and is therefore unable to distribute a dividend. The directors have recently had offered to them gratuitously a cinchona plantation adjoining their own, which had been abandoned by its owners. The eight and nine year old succirubras and hybrids, with which this estate was stocked, have been cut down at the root by the owners, but are sprouting up fresh again. The offer has been accepted with thanks. The cinchona company Melattie, more fortunate than some of its competitors, is able to pay its shareholders $5\frac{1}{2}$ per cent. dividend as a result of last year's trading. It has been decided to amalgamate the company with three other estates, and to increase the capital to 650,000 florins (54,000*l.*). The directors of the Java coffee and cinchona-plantation Tombo report that last year, owing to a disease in the cinchona trees, they were compelled to harvest nearly 51 tons of bark which under ordinary circumstances would have been left on the trees for some time. The cinchona disease continues to spread in the grown trees on the company's estates, and no fewer than 111,630 young trees have therefore been planted last season.

### Smyrna Opium Telegram.

Our Smyrna correspondent, telegraphing on Wednesday night, reports that during the week ending yesterday 40 cases of fine opium were sold to the agents of the Netherlands Government at the parity of 9*s.* per lb., f.o.b., and 40 cases fair *tale quale* opium to various buyers at prices ranging from 8*s.* 2*d.* to 8*s.* 4*d.* per lb., f.o.b.

### Cinchona-cultivation in British India.

In a recent report of the Indian Government it is stated that on the Government plantation of the Darjeeling district in Bengal there were, at the end of the year 1892–93, 4,331,000 cinchona-trees, or 100,000 less than in the preceding year. During the year, 466,000 trees were uprooted for their bark or died, while 184,000 were planted out. The harvest of dry bark was 304,000 lbs. The factory produced during the year 3,481 lbs. of cinchona febrifuge and 4,242 lbs. of sulphate of quinine. The sales and issues of medicine during the year yielded a profit, after meeting all charges for maintaining the plantations, renewing plant, and working the factory. As soon as the remaining million of red-bark trees are used up, it is intended to manufacture only quinine, and to cease making cinchona febrifuge at the Darjeeling factory. The capital cost of the plantation has been repaid by the sale of cinchona drugs in previous years. Ample ground has been reserved for extending the Darjeeling plantations. In the Government plantations on the Nilgiri hills, in Madras, the cinchona-trees are almost all of the quinine-yielding varieties. Drought, and the absence of sunshine, made the year 1893 unfavourable for cinchona-cultivation on the Nilgiri hills. The produce of the factory at these plantations during the year was 4,933 lbs. of quinine and 3,139 lbs. of cinchona febrifuge; 3,204 lbs. of the former and 2,600 lbs. of the latter were sold or issued to Government and municipal or local departments. The area under cinchona on private plantations outside Bengal is returned at 10,862 acres, nearly all of which are in Madras. The exportation of cinchona-bark from India by sea, which was 3,074,000 lbs. in 1888–89, and 2,693,000 lbs. in 1891–92, amounted to 2,814,000 lbs. in 1892–93.

---

ACID (CARBOLIC).—The market is rather weak, and prices generally have a downward tendency. *Crystals* are offered at $5\frac{3}{4}$*d.* per lb. for 39–40° C., and $5\frac{1}{4}$*d.* per lb. for 34–35° C. For *Crude* 60-per-cent. 1*s.* $6\frac{1}{2}$*d.* per gallon is required; for 75-per-cent, 1*s.* 11*d.* per gallon. *Cresylic* 95-per-cent. is obtainable at 1*s.* to 1*s.* 2*d.* per gallon.

ACID (CITRIC).—A fairly steady market, at 1*s.* $2\frac{1}{2}$*d.* to 1*s.* $2\frac{3}{4}$*d.* per lb., according to brand.

ACID (GALLIC).—The recent advance in Chinese galls may not improbably affect the quotations of *Gallic*, *Tannic*, and *Pyrogallic* acids. The current quotations are still as follows:—

| | Per lb. | | | | |
|---|---|---|---|---|---|
| | *s.* | *d.* | | *s.* | *d.* |
| Gallic, pure crystals, in 1-cwt. lots .. .. | 2 | 0 | | | |
| Pyrogallic, 1-oz. to 8-oz. bottles or tins, according to packing .. .. | 11 | 10 | to | 13 | 0 |
| " 1-lb. tins .. .. .. .. | 11 | 4 | | | |
| " 7-lb. tins .. .. .. .. | 10 | 9 | | | |
| Tannic, technical, powdered .. .. .. | 1 | 0 | " | 1 | $3\frac{1}{2}$ |
| " " Schering's patent .. | 1 | 2 | " | 1 | $3\frac{1}{2}$ |
| " levis, B.P. .. .. .. .. | 1 | 8 | " | 1 | $7\frac{1}{2}$ |

ACID (OXALIC).—The price of $3\frac{5}{8}$*d.* per lb. net, delivered on rail, London, still holds good.

Acid (Tartaric).—Decidedly better in tone. English brands (B.P. quality) are still quoted at $10\frac{3}{4}d.$ to $11d.$ per lb.; foreign makes, in crystals or powder, at $10\frac{1}{2}d.$ per lb., but an advance is not improbable.

Alcohol.—The market has undergone no alteration recently, quotations remaining firm on the basis of $7\frac{3}{4}d.$ per gallon in bond for best German potato-spirit, c.i.f. terms, packing not included. Within two or three weeks the result of the continental potato-crop will probably be fully known, and if any serious alteration takes place in the position of alcohol, it will probably be about that time.

Antitoxine Solution.—This new diphtheria-prophylactic is now being offered wholesale at $2s.$ $6d.$ in bottles of 2 c.c., and at $5s.$ in bottles of 5 c.c.

Balsam Peru.—A steady market. The quotation for good unworked balsam remains $7s.$ $6d.$ per lb., but no sales are reported.

Benzoin.—Amsterdam reports that only medium and inferior grades of *Sumatra* benzoin are offering there at present. Fine varieties are much wanted, and would realise good prices. On September 12 207 boxes *Sumatra* and 20 cases *Palembang* gum, mostly of recent import, are to be offered for sale publicly.

Borax.—Competition between the outside makers and the members of the combination remains as fierce as ever, and refined borax crystals are obtainable at very low rates—viz., $21s.$ $6d.$ from the combination, and $21s.$ per cwt. from outsiders. Italy quotes best high-testing Tuscan *boracic acid* at $19s.$ $6d.$ c.i.f. London or Liverpool.

Buchu.—The *Moor* has brought 59 packages from Cape Town this week.

Calabar Beans.—In Liverpool holders are firm at $2\frac{1}{4}d.$ per lb., but buyers are unwilling to pay that price, although they would be anxious to do business at a slight concession.

Camphor (Crude).—The market has shown some nominal recovery from the severe depression of last week. On Friday 100 piculs *Japan* gum, December shipment, sold at $117s.$ $6d.$ c.i.f. terms, and *China* camphor (as announced in our last issue) was offering without success at $105s.$ c.i.f. Afterwards holders showed a little more firmness, and on Monday a report was being assiduously spread (though no confirmation could be obtained of the truth of the assertion) that $107s.$ $6d.$ c.i.f. had once again been paid for China. Since then, however, there has been a fresh collapse, and to-day sellers are prepared to cable out bids of $100s.$ c.i.f. for China camphor. The first mail news about camphor received from China since the commencement of hostilities is contained in a report dated August 2. It runs as follows:—Arrivals of Formosa camphor since our last report are 307 boxes only. Owing to the hostilities which have broken out between Japan and China, prices have advanced considerably, and our market closes firm, with buyers at $43, whilst sellers ask $44. Transactions during the time under review amount to about 1,900 boxes, including larger settlements "to arrive," and our unsold stocks are estimated at 1,300 boxes.

Cantharides.—New *Russian* flies are now offered at $2s.$ $9\frac{1}{2}d.$ per lb., c.i.f. terms.

Caraway-seed.—The new *Dutch* seed is coming in freely. The quality is mostly dark and deficient in oil, but the crop has been a good one. New seed is easier, and offers at $24s.$ $6d.$, while for old seed higher rates are asked, $27s.$ $6d.$ per cwt. being the nearest quotation.

Cinchona.—At Tuesday's cinchona auctions a moderate supply of bark was placed in sale. There were eight catalogues, and these aggregated of:—

| | Packages | | Packages | |
|---|---|---|---|---|
| Ceylon cinchona .. .. | 753 | of which | 679 | were sold |
| East Indian cinchona .. .. | 141 | " | 141 | " |
| African .. .. .. | 623 | " | 628 | " |
| Cuprea bark .. .. .. | 200 | " | — | " |
| | 1,722 | | 1,448 | |

The assortment was a poor one, the bulk of the Eastern cinchona being ordinary *Succirubras*, Ceylon supplying a small sprinkling of *Officinalis*, and India of *Ledgeriana* barks. The highest price paid for any lot of Eastern growth was $4\frac{5}{8}d.$ per lb. A fair competition prevailed, especially among the German manufacturers, and the sales, although somewhat irregular at first, closed with a steady tone, at an average unit of $1\frac{15}{16}d.$ per lb. The following are the approximate quantities of bark purchased by the principal buyers:—

| | Lbs. |
|---|---|
| Agents for the Frankfort and Stuttgart works .. | 75,169 |
| Agents for the Brunswick works .. .. .. | 65,348 |
| Agents for the Auerbach works .. .. .. | 65,033 |
| Agents for the Mannheim and Amsterdam works .. | 32,408 |
| Messrs. Howards & Sons .. .. .. .. .. | 29,597 |
| Agents for the American and Italian works .. .. | 17,274 |
| Agents for the Paris works .. .. .. .. | 8,850 |
| Sundry druggists .. .. .. .. .. .. | 13,850 |
| Total quantity of bark sold .. .. .. | 307,559 |
| Bought in or withdrawn .. .. .. | 43,570 |
| Total quantity of bark offered .. .. | 351,129 |

The total weight of sulphate of quinine represented by the bark in sale was only about 56,000 oz.

It should be remembered that the quantity of bark bought affords no indication of the amount of sulphate of quinine represented by the purchase.

The following prices were paid for sound bark:—

Ceylon Cinchona.—*Original*—Red varieties: Ordinary dull and woody to fair quilly stem and branch chips, $\frac{7}{8}d.$ to $1\frac{3}{4}d.$ per lb. Fine stem chips, $2\frac{1}{8}d.$ per lb. Good to fine rich shavings, $2\frac{3}{4}d.$ to $4\frac{5}{8}d.$ per lb. Root, $\frac{7}{8}d.$ to $1\frac{3}{4}d.$ per lb. Grey varieties: Ordinary to good bright stem and branch $1\frac{1}{8}d.$ to $2\frac{1}{2}d.$; dull dusty root, $1\frac{1}{4}d.$ to $2d.$; good, $3\frac{3}{4}d.$ per lb. *Renewed*—Red varieties: Ordinary to good bright stem and branch chips, $\frac{7}{8}d.$ to $3d.$ per lb. Grey shavings, $2\frac{1}{4}d.$; fair to good chips, $2d.$ to $2\frac{3}{4}d.$ per lb.

East Indian Cinchona.—*Original*—Red varieties: Ordinary to good bright quilly stem and branch chips, $1d.$ to $1\frac{3}{4}d.$; good bright shavings, $2\frac{3}{4}d.$; broken quill, $2d.$; dull to fair root, $1\frac{1}{4}d.$ to $2\frac{1}{4}d.$ per lb. Grey dull stem chips, $1\frac{3}{4}d.$ per lb. Yellow varieties: Good bright small chips, $3\frac{3}{8}d.$ to $3\frac{3}{4}d.$; fair shavings, $2\frac{5}{8}d.$ to $2\frac{3}{4}d.$; broken quill, $3\frac{5}{8}d.$ to $3\frac{3}{4}d.$; dull to good bright root, $2d.$ to $4\frac{1}{8}d.$ per lb. Hybrid chips, $1\frac{1}{8}d.$ per lb. *Renewed*—Red shavings, $1\frac{7}{8}d.$; dull to fair stem chips, $1d.$ to $2d.$ per lb.

West African Cinchona.—The large quantity of 628 bales *Succirubra* bark from San Thomé sold with good competition at from $2\frac{1}{2}d.$ to $3\frac{1}{4}d.$ per lb. for fair to fine bright quill, and at from $1\frac{3}{4}d.$ to $2\frac{1}{4}d.$ per lb. for dull small to good bright bold chips.

Cuprea Bark.—Two hundred bales of old import were offered, but all bought in at $\frac{3}{4}d.$ per lb.

The Amsterdam cinchona auctions on Thursday last ended in disappointment to the bark owners, among whom there was a general belief that the unit would advance again. The total weight of sulphate of quinine represented by the bark offered was 20,265 kilos, of which 18,551 kilos sold at an average unit of 4.35c. (= about $\frac{4}{5}$ per lb.), against 4 50c. at the July auctions. The richest parcel in the sales was one of 11 bales Ledger in broken quills, containing the equivalent of 10.63 per cent. sulphate of quinine. It realised 48c. per half-kilo. Fine pharmaceutical barks were in demand at high prices, but medium and common grades are offering plentifully and are hardly saleable. The August shipments of cinchona from Java are cabled at 880,000 half-kilos. The total exports from the island during the first eight months of 1894 are slightly in excess of those during the corresponding period of 1893.

Cloves.—The advance (mainly speculative) in *Zanzibar* cloves continues to make progress, and the price closes, on the spot, quite $\frac{1}{4}d.$ per lb. higher than last Thursday's quotation. At auction 821 bales were offered, of which 400 found buyers at from $2\frac{1}{8}d.$ to $2\frac{5}{8}d.$ per lb. for ordinary dark to fair. For delivery a large business has been done, principally for delivery from October to December, closing at $2\frac{15}{16}d.$ per lb.

Cocoa-butter.—At the monthly auction on Tuesday 400 2-cwt. cases of *Cadbury's* cocoa-butter were offered and sold at $12\frac{7}{8}d.$ to $13\frac{1}{8}d.$ per lb., a slight decline on the August auctions.

Cocaine.—On Tuesday the German makers raised their price of hydrochlorate of cocaine by $9d.$ per oz., the present quotation being:—100-oz. lots, $16s$; 25 to 100-oz. lots, $16s.$ $3d.$;

lots of 25 oz. or less, 16*s.* 6*d.* per oz. These figures refer to tins, 1-oz. bottles are charged 3*d.* per oz. extra. Delivery must be taken within three months of contract. Perhaps these quotations might be slightly shaded by second-hand holders.

COLOCYNTH.—Still advancing. Good Turkey apple has been sold at 1*s.* 9*d.* per lb, and now 1*s.* 10*d.* per lb. is asked.

COPPER (SULPHATE).—Rather firmer. The quotations in London run from 14*l.* to 15*l.*, according to brand, and in Liverpool 15*l.* per ton, f.o.b., is asked.

CORIANDER-SEED.—The recent high price of coriander seed (says the *O. P. & D. Reporter*) was due to a concentration of all that was available in the hands of two dealers, though for a long time one dealer was in control. While the corner lasted the price of 9 cents per lb. prevailed, but the first arrivals of the new crop, which came to several dealers, caused a break to 5 cents for unbleached. This rather acute decline in the price was severely felt by some dealers, who had bought quite largely in the primary markets of the first of the new crop. They paid high prices for new seed, which was rushed forward before it had fully matured. Advices from the various sources of supply indicate that the yield will be a large one, but, in spite of this, it is intimated that an effort is being made to obtain control of the crop. As to the future course of prices, the general opinion is that they will be materially lower later in the season, as the crop is reported to be almost double an average one.

CREAM OF TARTAR continues to rise. Best French crystals are held at 63*s.* per cwt. now.

ERGOT OF RYE.—Market decidedly firmer. Shortly after the last drug-sales about 2 tons of fair *Spanish* ergot sold for export at from 9*d.* to 10*d.* per lb., and to-day there do not appear to be any sellers at a less price than 1*s.* per lb. *Russian* (Continental) ergot has sold at 9*d* per lb. It would seem, however, that there is a considerable supply of ergot on the Continent, for which dealers would be glad to accept low rates. Yesterday a quotation was received from the Continent asking 7½*d.* per lb., c.i f. London, for fair *German* ergot.

GALLS (CHINA).—Again dearer. On the spot 47*s.* per cwt. is said to have been paid for fair quality. Plum-shaped galls offer at 50*s.* c.i.f. for October-November shipment.

GINGER.—At auction on Wednesday 1,123 bags and 34 cases *Cochin* ginger were offered. The demand was slack, and only about 300 packages found buyers at somewhat easier prices—fine bold to fair rough cut, 85*s.* to 74*s.*; medium and small washed rough, fair to ordinary, 42*s.* to 40*s.*; dull small and ends, 39*s.* per cwt. *Jamaica* ginger remains steady, but only a few lots of the 171 barrels offered found buyers—small dull washed, 64*s.* 6*d.* to 66*s.* 6*d.*; medium to boldish, bright ditto, 72*s.* per cwt. A parcel of 140 bags rough *Bengal* realised 37*s.* per cwt. In Liverpool nearly 500 bags *African* ginger have been sold this week at 30*s.* per cwt.

GLYCERINE.—German refined glycerine is offering at very low prices, 41*s.* 6*d.* per cwt. being about rock-bottom quotation for double distilled sp. gr. 1·260. There are also some cheap parcels of Russian glycerine in the market. Several manufacturers, however, decline to take part in this competition *à outrance*, and have practically withdrawn from the market. In France crude glycerine has been a little firmer lately.

GUM ACACIA.—At to-day's auctions the demand was exceedingly slow; and of the 1,751 packages *East Indian* gums offered only 215 found buyers at the following prices: *Aden*—ordinary dark mixed sorts, 21*s.* 6*d.* to 24*s.* 6*d.*; siftings, 18*s.* to 22*s.* 6*d.* *Ghatti*—good pale, 34*s.*; dull pickings, 10*s.* *Kurrachee*—pale and amber mixed, 30*s.* to 33*s*; reddish and amber mixed, 22*s.* 6*d.* to 26*s.*; pale siftings, 23*s.* 6*d.* to 28*s.* 6*d.* *Oomra*—glassy and palish, 29*s.* to 32*s.* 6*d.*; blocky, 20*s.* 6*d.* per cwt. *Australian* gum neglected, and only 21 packages sold at 25*s.* 6*d.* for frosted drop, 19*s.* to 21*s.* for dull red drop, and 13*s.* per cwt. for blocky. Privately there has been some business in *Soudan sorts* at 42*s.* 6*d.* per cwt.

GUM OLIBANUM flat. Pale picked drop sold at auction to-day at 50*s.*, fair to good garblings at 10*s.* 9*d.* to 14*s*, and siftings at 12*s* per cwt.

KOLA-NUTS are getting scarce. In Liverpool, from 6*d.* to 8½*d.* per lb. is the price for West African.

MANNA.—The new manna crop is now being gathered in Sicily. The weather during the harvesting has been fine, and the quality of the first batches of new manna brought to market is described as excellent. Later on it is expected that there will be some drop in the quotations, although no heavy reduction in prices is looked for. The current figures for new manna (f.o.b. Palermo) are:—

| | | *s.* | *d.* |
|---|---|---|---|
| Flake manna in 1-lb. tins .. .. .. | per lb. | 3 | 1 |
| " " 7-14 lb. tins .. .. | " | 2 | 10 |
| " " boxes .. .. .. | " | 2 | 8 |
| " " cases .. .. .. .. | " | 2 | 4 |
| Broken manna .. .. .. .. | " | 1 | 1½ |
| Gerace variety .. .. .. .. | " | 0 | 9 |

OIL (CASTOR).—Although the price of best Calcutta castor oil in London has been depressed by forced sales at auction to the lowest point on record, advices from Marseilles and other centres announce higher rates. Best first pressing French oil, for instance, which was still obtainable at 16*s.* 9*d.* per cwt. f.o.b. Marseilles last week, has now been advanced to 17*s.* 3*d.* per cwt. f.o.b. Fine oil from Italian seed is quoted at 33*s.* 6*d.* per cwt. f.o.b.

OILS (ESSENTIAL).—*Clove oil* is tending higher in price in consequence of the rise in the cost of the raw material. English drawn is quoted at 2*s.* 2*d.* to 2*s.* 4*d.* per lb. *Cajuput oil* is offering in Amsterdam at the rate of 1*s.* 11*d.* per bottle, but there are no buyers above 1*s.* 10*d.* per bottle. American *Oil of peppermint* is still on the decline, owing, probably, to speculative influences. For HGH 10*s.* 3*d.* per lb. is quoted to-day, and it is said that a bid of 10*s.* would be submitted. Wayne County oil, in tins, offers at very irregular prices—7*s.* 6*d.* per lb., c.i.f. terms, would seem to be about the bottom figure. In New York, according to the last mail reports, the peppermint-oil market is a trifle lower, owing to free offerings of new crop. A parcel of 1,000 lbs. Western was being offered at $1.75, New York terms, but the general spot price was $1.85. Wayne county spot is quoted at $2, and case oil at $2 45 and $2.50. The new crop of *Spearmint* continues to offer, and $1.50 would be accepted in New York. *Star-anise* oil remains firm, and small sales are reported on the spot at 6*s.* 11*d.* to 7*s.* per lb., while for shipment, near at hand, 6*s.* 6*d.* per lb., c.i.f., is asked. Oil of *Cassia* has sold at 2*s.* 10*d.* to 2*s.* 11*d.* c.i.f. per lb. near at hand. *Lemongrass* oil is flat, and a parcel now afloat is offering at 1$\frac{7}{16}$*d.* per oz., c.i.f. terms. On the spot 1¾*d.* per oz. is the nearest quotation. *Citronella* oil very dull of sale, and obtainable, in tins, at 10*d.* per lb. on the spot. Italian essential oils (*Lemon*, *Bergamot*, and *Orange*) are all rather firmer; reports from Calabria and Sicily being generally agreed that orders have been more plentiful lately. English essential oils show no change; best new Mitcham *Peppermint oil* offers at 27*s.* per lb., and for *Oil of lavender* 80*s.* per lb. is asked. Japanese *Peppermint* oil is offering lower to arrive, dementholised at 7*s.*, 40 per cent. at 8*s.* per lb. c.i.f. October-November shipment.

OPIUM.—The excitement—if it may be called by that name—which distinguished the market last week has entirely ceased, and, although the tone remains steady, no business to speak of has been transacted during the last five or six days. The demand for *Persian* opium appears to be satisfied for the present (rather over 100 cases of this, we are told, changed hands last week for export to China), and for *Turkish* opium there is little or no demand. A telegram received from Salonica to-day announces an advance to 10*s.* 6*d.* per lb., f.o.b, for new opium in that centre. It appears that buyers of Turkey opium are now waiting to find out whether the large quantities that were bought on speculation some months ago by an American firm have gone into consumption or are still held by the buyers and liable to be brought to market sooner or later. Our Smyrna correspondent, writing on August 25, observes:—"This week nothing has been done in opium, notwithstanding which our holders are still obstinately maintaining their prices, for yesterday a buyer offered 8*s.* for 3 cases of *New tale quale*, and holders refused to come to terms under 8*s* 3*d.* The idea among our Bazaar dealers is

that the Americans will soon begin buying, and that they will be prepared to pay over 8*s*. 6*d*. per lb. We are inclined to suppose that there are large orders afloat for American account at about 8*s*., and that sooner or later our market will have to give way; on the other hand, if we have no rains during the month of September, we do not suppose that prices will decline." Another correspondent writes on the same date that during the week then ending 5 cases new opium (inspected) had sold at the equivalent of 8*s*. 7*d*. per lb. f.o.b. There were a few orders in the market, but, as the holders refused to make concessions, these could not be executed. Arrivals to date 970 cases, against 361 in 1893. Our Constantinople correspondent reports, under date of September 1:—"Germany is to the fore again, and has, since September 11, bought 38 cases at 8*s*. 3*d*., f.o.b., for good *Yerli*. Besides this a speculator has taken 30 cases *Karahissar* and *Balukessar* at 8*s*. 4*d*. and 8*s*. 6*d*., f.o.b., respectively. The market is steady in consequence. *Tokats* are relatively lower, 12 cases good new having been sold to-day at 8*s*. 3*d*. The Smyrna market is weak, and everything points to a decline to 7*s*. and lower in the near future. The Smyrna gentleman of forty years' experience in the opium business, who so roundly ridiculed our estimate of the yield of this season crop some time back, stated that the outturn would be 6,500 cases certain, and possibly 8,000 cases, and afterwards promised another correct estimate, which has not as yet put in an appearance. Apparently he has at last realised that the crop has only yielded 5,000 to 5,500 cases at the utmost, which has been our estimate from the very commencement. The total arrivals to August 25 are: 1893, 692 cases in Smyrna and Constantinople; 1894, 1,418 cases in Smyrna and Constantinople; but it must be borne in mind that the 1894 crop was a month earlier than that of 1893."

Orris-root.—Reports from Leghorn say that the new crop, which is late this year, is just coming to market. It is said to be rather large, and of good quality. The quotations are still uncertain; but it is thought that the market will open on the basis of 57*s*. 6*d*. per cwt. for selected Florentine-root, 52*s*. 6*d*. for yellow and small mixed (sorts), 50*s*. to 52*s*. 6*d*. for fair to good Verona, and 42*s*. per cwt. for common dark Verona. All these quotations are f.o.b. Leghorn.

Otto of Rose.—No price has yet been fixed. Our Bulgarian correspondent, writing on August 29, observes:—There is scarcely any change in the stagnant state of affairs in our rose market; nearly all the otto still remains unsold in the hands of its producers. The houses mainly responsible for last year's exorbitant prices continue to do their utmost to sustain the high expectations of the growers, and to delay the fixing of the new prices. Evidently they have not as yet disposed of their old stock. Still, the period of inactivity cannot last much longer. The present tone of the market is quite yielding, and the restoration of the former normal prices at an early date seems probable. The producers are reported to be no longer so exacting as they were two months ago. Early in July they demanded for pure otto 33*s*. to 40*s*. per oz., now they ask only 32*s*. to 34*s*. per T oz. The normal price here this year should be about 30*s*. This week, two houses, who make a speciality of commercial grades, and usually sell their brands 10 to 20 per cent. below the local prices, have bought the rose of four villages in the county of Karlovo, in all about 2,000 ozs., with average freezing point 63° F., at a price ranging from 24*s*. to 29*s*. per oz. When one considers the ordinary quality of the otto in these four villages, the price paid is high, and will tend to encourage adulteration. As none of the leading houses have backed these buyers, it is hoped that these prices will not turn the heads of sensible producers and make them persevere in demanding the old high rates. Never in the history of the rose industry has the fixing of the price of a crop been so backward.

Potash (Chlorate).—The chlorate-of-potash market is much disturbed in consequence of the appearance in the British market of a new competitor—viz., a *Swedish* factory—from which the first consignment is expected here in a few days. The quality of this chlorate is stated to be satisfactory, and large quantities of it are reported to have been sold for delivery at 5*d*. per lb., net terms. It is only right, however, to add that the agent for the Swedish factory denies that this quotation is correct. The *U. Alkali Co.'s* chlorate is held for 6*d*. per lb., f.o.b. Liverpool, or 6⅛*d*. per lb. London, usual terms. *French* and *German* brands are offering at 5¾*d*. per lb., c.i.f., net. It is quite on the cards that the British makers may decide to fight the new competitor, in which case reduced quotations may be expected at an early date.

Potash (Permanganate).—Still weak, and tending lower. Small crystals are obtainable at 55*s*. per cwt.

Quicksilver.—The market keeps very firm, the principal importers holding for 6*l*. 10*s*.; while second-hand holders require 6*l*. 8*s*. 6*d*. to 6*l*. 9*s*. per bottle.

Quillaia.—Market very slow. In Liverpool prices are drooping, from 10*l*. to 10*l*. 15*s*. per ton being the nominal range of quotations.

Quinine.—Most people interested in quinine still affect to consider the position of the market a sound one. Nevertheless, there has been a slightly increased reaction towards lower rates this week, about 20,000 oz. German quinine (*Brunswick* and *Mannheim*) in tins having been sold on the spot at from 12¼*d*. to 12*d*. per oz., while for 10,000 oz. *Auerbach* 12*d*. per oz. has been accepted. Transactions of *Brunswick* and *Mannheim* quinine for October-November delivery are also reported to have taken place at from 12⅜*d*. to 12¼*d*. per oz. On Wednesday another 5,000-oz. parcel sold at 12*d*. per oz. on the spot. The market closes with a weak and uncertain tendency. All the business reported this week has been in second hand. The makers' quotations are unaltered.

Rhubarb.—A parcel of 110 piculs *Highdried* root, August shipment, sold a few days ago at the rate of 11*d*. to 11½*d*. per lb., landed terms, showing a firm market. Since last week there has been a further arrival of 19 cases rhubarb, per *Canton*, from Shanghai.

Senega.—Exceedingly firm. Good root is quoted at 1*s*. 5*d*. per lb., c.i.f. terms, from the States.

Senna.—The new crop is arriving slowly. The *Shannon*, from Bombay, brought 230 bales.

Spermaceti.—The last sales in *Chilian* refined spermaceti at Liverpool were at the rate of from 1*s*. 2½*d*. to 1*s*. 3*d*. per lb. New York cables announce a fresh advance, 1*s*. 6*d*. per lb., c.i.f., being asked from that quarter.

Sulphur.—Owing to the destruction on board of a vessel of a large quantity of foreign *roll sulphur*, the price of that article has advanced considerably. For the moment the bulk of the roll sulphur offering is *British*, for which from 6*l*. 10*s*. to 6*l*. 15*s*. per ton is asked. *Flowers of sulphur* (foreign) offer at 5*l*. 15*s*. to 6*l*. per ton.

Tamarinds.—A parcel of *Barbados* tamarinds at auction on Wednesday realised 17*s*. per cwt., showing a higher market.

Tea.—The market shows a strong tone all round, and prices are ¼*d*. to ½*d*. up. Lower grades of Indian tea are in strong demand, and the good 5½*d*. Pekoe Souchongs which could be bought a fortnight ago are now 6*d*. teas, and well competed for at that price. In spite of the advance, however, teas under 8*d*., both Assam and Ceylon, are still cheap, and some are prophesying a substantial further rise. On the other hand, there is a lot of tea on the way, and shortly to be shipped from the other side, and though the exchange with the East is higher, it is still very low compared with a couple of years ago, and this encourages a heavy import of lower grades. Ceylons on Tuesday were very stiff, especially for teas with quality and for teas with colour; and good 7½*d*. to 9*d*. Pekoes showed in many cases ¾*d*. to 1*d*. advance. Commoner sorts were ¼*d*. to ½*d*. up, only rubbish in leaf-tea being obtainable under 5½*d*. Congous are very firm, and the useful first-crop Capers selling recently from 5*d*. to 7*d*. have gone readily into consumption, and are distinctly dearer.

Turmeric.—In better demand. At auction this week 50 bags fair bulby *Madras* finger sold at 12*s*. per cwt.; and 50 bags split *Cochin* bulbs brought 7*s*. 9*d*. per cwt.

Wax (Japan).—The price is slowly rising. It is reported that 30*s*. per cwt. c.i.f. has been paid for September-October shipment, and on the spot 32*s*. per cwt. is the lowest quotation for good pale squares.

# CORRESPONDENCE

### Memoranda for Correspondents.

*In letters for publication correspondents are requested to express their views as concisely as possible.*

*Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.*

*The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.*

---

### The Sale of Poisons by Unqualified Assistants in Ireland.

SIR,—Even Homer sometimes nods, and even the omniscient editor of our official organ can gravely express his doubts whether an unqualified person may retail poisons in the shop of a qualified chemist in Ireland, in apparent obliviousness of that remarkable clause of the 17th section of the Pharmacy Act of 1890, which expressly provides that, for the purposes of the Act, the owner of the shop wherein poisons are retailed or compounded shall be held to be the retailer or compounder of the poisons sold therein.

This provision, I have always understood, was expressly introduced by the promoters of the Act of 1890, in order to protect themselves from the results of the decision in the English courts, known as the Wandsworth case, where it was held that the person who actually delivered the poison and received payment was the seller, and not merely the owner of the shop. The promoters, being themselves in every instance principals of establishments, were naturally anxious to avoid the trouble and expense of providing qualified assistants to sell every pennyworth of precipitate powder or oxalic acid, and they succeeded by the simple introduction of the few words defining whom the seller should be taken to be.

The provision in the same clause referring to the management and conducting of a place by a qualified assistant is, of course, held to refer to branch shops, or to cases in which the owner is habitually absent. Thus, under the old Act, a pharmaceutical chemist might reside in Hong-Kong, and carry on a dozen shops as pharmacies in Dublin without a single qualified assistant, provided only that he were the actual owner of them (that is, that he paid the rates); whilst under the provisions of the Act of 1890 it is held that if a pharmacist habitually reside in Timbuctoo he cannot be said to personally manage and conduct a pharmacy in Dublin, and must appoint for the purpose a qualified assistant or manager.

Hence if there be even one qualified chemist to each pharmacy in Ireland the law is satisfied, unless it can be shown that the chemist does not personally conduct the business, and it would be practicable for one qualified chemist to have fifty "sweeps" compounding under his supervision. "Qui facit per alium facit per se" is the rule which regulates the practice of pharmacy in this vale of tears. I am charged with a certain want of lucidity in my suggestion as to how certain companies might be tolerated and certain others not recognised. Thoughts that breathe and words that burn must ever be beyond the attributes of a mere working pharmacist, and to express oneself in luminous prose is a gift reserved for journalists. But I must endeavour, according to my mediocrity, to make myself intelligible. The average Irish chemist, I take it, is not so much afraid of the limited companies at present in existence in Ireland as he is of the possibility of their number being indefinitely added to; and if he would question the right of any of the present companies to carry on business, it would rather be to deny the right of a limited company to practise pharmacy than from any ill-feeling against the proprietors thereof. Again, I do not think it would be practicable to stop such firms as those of Hamilton, Long & Co., of Dublin, or Grattans, of Belfast, from compounding on the ground that each individual shareholder is not a qualified chemist. But on what ground may these firms be tolerated? Shall it be merely because it would be doubtful policy for a poor society to bring a rich company into court to vindicate its rights? Such a principle would, I humbly conceive, be fatal to the honour and dignity of the Pharmaceutical Society of Ireland. But both these businesses were being carried on by apothecaries at the time of the passing of the Pharmacy Act of 1875, and it is expressly provided by that Act that nothing therein contained should interfere with apothecaries carrying on business as such at the time of the passing of the Act. My suggestion, then, is that the case of such firms as those mentioned should be considered as coming under the exemption provided by the Act. This would leave the Society free to deal with companies who had no status prior to 1875—for instance, with the Junior Army and Navy Stores, or any new company which might wish to carry on operations here. Of course, if the Society think they can put a stop to all company pharmacy in Ireland, so much the better, but prudence is the better part of valour.

As to the case of the company in Cork mentioned by my good friend, Mr. Hinchy, we should all be very interested to learn the results of the correspondence between the President and the company. Yours truly,

19 North Earl Street, Dublin. J. C. MCWALTER.

[In the first part of the above letter Mr. McWalter opens a particularly doubtful question, which a Court would probably not decide quite so confidently as he does. First, the principal Act (1875) declares that "it shall be unlawful for any (unqualified) person to sell" . . . a poison. It may be assumed that in the case of an unqualified assistant selling a poison and being prosecuted, the English High Court interpretation of the corresponding section would be followed, and a fine would be imposed. But Mr. McWalter says section 17 of the 1890 Act would be a defence, as it provides that the qualified person lawfully keeping open shop "shall for the purposes of this Act, and of the principal Act, be held to be the retailer and compounder of poisons aforesaid therein." But the same clause immediately goes on to require that this qualified owner, or his qualified manager (who is authorised in the same section), "shall personally manage and conduct such shop, and the retailing, dispensing, and compounding of poisons and medical prescriptions therein"; "and any person or persons acting in contravention of this enactment shall for every such offence be liable to pay a penalty not exceeding 5*l*." Surely if some unqualified person undertakes to manage and conduct the retailing of a poison in that shop, he acts "in contravention of this enactment," and renders himself liable to the penalty.—EDITOR *C. & D.*]

---

### Chemists as Milk-sellers.

SIR,—Paragraphs referring to foreign pharmacy constantly appear in THE CHEMIST AND DRUGGIST, but I never remember any allusion to the custom so prevalent in Normandy of buying milk, guaranteed to have been analysed and found pure, from the chemist. I have noticed the announcement of sale in chemists' windows at Havre, Fécamp, and Étretat, and at Trouville also. I myself bought some at Fécamp; I think the price was 30c. a litre. The chemists send it out in special cans, just as syphons are let out here in some parts. When having luncheon with a friend of mine, a French doctor, at Havre, I noticed one of these milk-cans on his table. Of course in Normandy, in the places I have alluded to, the cholera has produced a wholesome dread of impure milk, but the charge was not extortionate, and it set me thinking whether chemists in some districts in England could do the same—viz., sell milk guaranteed to have been analysed and found pure, at a proportionate advance on the ordinary market price. Yours truly,

ALGERNON WARREN.

23 and 24 Redcliff Street, Bristol, August 31.

---

## DISPENSING NOTES.

### Quinine and Iodide of Potassium.

116/19. *Bradford* dispensed the following mixture, dissolving the quinine in tinct. nuc. vom., the iodide in water,

added liq. arsenicalis when a precipitate formed, which dissolved on addition of spirit of chloroform, but again precipitated on the further addition of water. He wishes to know if it would be advisable to use spirit in place of water?

| | |
|---|---|
| Quin. sulph. .. .. .. .. .. | gr. xxiv. |
| Tr. nuc. vom. .. .. .. .. .. | ʒiij. |
| Pot. iodidi .. .. .. .. .. | ʒij. |
| Liq. arsenicalis .. .. .. .. | ♏iss. |
| Spt. chlorof. .. .. .. .. .. | ♏ij. |
| Aqua ad .. .. .. .. .. .. | ℥iss. |

Twelve drops thrice daily an hour after meals.

[It would not be advisable to add spirit without sanction of prescriber. The precipitate is one of quinine formed by the alkali of the Fowler's solution. Neutralise the solution of arsenic with a few drops of hydrochloric acid, and dispense as before. Label, "Shake the bottle."]

### Salicylate of Soda and Alkalies.

117/69. *Lemon* wishes to know why this mixture, when made up by a certain chemist, becomes quite dark in colour in from twelve to eighteen hours after being dispensed, but when dispensed by himself and certain others it seems to retain its original colour:—

| | |
|---|---|
| Vin. sem. colchici .. .. .. .. | ʒiij. |
| Sodæ bicarb. .. .. .. .. .. | ʒiij. |
| Sodii salicylatis .. .. .. .. .. | ʒiij. |
| Spt. ammon. co. .. .. .. .. .. | ʒj. |
| Inf. quassiæ ad .. .. .. .. .. | ℥viij. |

M.

[This prescription is very fully noted at page 132 "The Art of Dispensing." We have observed, in using hot water, that change of colour is more apt to occur; so also when a stock solution of soda bicarbonate is used. The rate of darkening is unquestionably related to the purity of the salicylate used. Alkaline mixtures made with natural salicylate are the least prone to change of colour; then comes the "physiologically pure" salt, and so on. "A certain chemist" apparently does not use the best salt that he can get.]

### Sodii Chlorid. and Sodæ Bicarb.

119/49. *W. H. P.*—The reaction between these two salts probably depends on the presence of magnesium chloride in the salt as an impurity, magnesium carbonate, of course, being precipitated. With pure NaCl no precipitate should result.

## LEGAL QUERIES.

*Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and* The Chemists' and Druggists' Diary.

115/13. *Revenue* asks, "Are we not liable in selling Steedman's powders loose?" [Liable to what? It is not illegal. A licensed medicine-vendor, who is not the maker, compounder, or first vendor, may break a stamped packet of any medicine and sell out the contents loose without restamping, provided he does not repack the article.]

115/46. *F. E. R.*—There is no way of securing the sole right of an invented word for a proprietary article except by registering it as a trade-mark. For procedure see *C. & D.* Diary, 1894, page 185.

## MISCELLANEOUS INQUIRIES.

116/53. *Dum Spiro Spero.*—The China Cement, for which formula is given in Diary for 1894, will not set when cold, but that does not detract from its efficacy. If you prefer it to "set," use half the amount of acetic acid.

116/2. *F. W. V.*—(1) We know of no volatile oil containing a volatile resin. (2) Euonymin.—There are two varieties of this preparation—the B.P., which is a dark-brown extract, and the old "Euonymin," which the B.P. extract was intended to supersede, and which is a green extract. (3) We shall give you a formula for "Barrack-Sergeant's Drops" in an early issue.

115/6. *Soapist.*—The efflorescence of your soap is due to the presence of excess of mineral salts. Re-melt it with more fat. (2) Silicate of Soda for soap-making is usually of a strength of 140° Tw. (3) Colouring for Soaps.—For a mottled soap use an insoluble colour, such as vermilion, ultramarine, &c.; for an evenly coloured soap use a soluble aniline dye.

113/53. *H. T. H.*—Harness-polish:—

| | Parts |
|---|---|
| Shellac, light coloured .. .. .. .. | 100 |
| Borax .. .. .. .. .. .. | 50 |
| Water .. .. .. .. .. .. | 675 |
| Sugar .. .. .. .. .. .. | 100 |
| Nigrosin .. .. .. .. .. .. | 25 |

Heat the shellac, borax, and water together, stirring briskly, in a steam-bath until complete solution is obtained. To this add the other ingredients and stir until nigrosin is completely dissolved; finally add enough water to make the whole up to 1,000.

The directions should read as follows:—

Harness, shoes, and other leather goods should be thoroughly cleaned by washing with soap and water, allowed to dry, and then coated with this dressing by means either of a brush or of a sponge.

113/29. *G. W. B.*—To Estimate the Alcoholic Strength of flavouring-essences proceed as follows:—Take 50 c.c. essence, dilute with distilled water to 150 c.c., and distil the mixture till about 100 c.c. have been collected. Cool the distillate to 60° F. and adjust it to exactly 100 c.c. by addition of more water. Then take the sp. gr. of the distillate and refer to tables for amount of alcohol present, which be half the amount in the essence.

116/55. *Digitalis.*—We have no doubt an hour's good lecture could be made on medicinal plants, which would offer, we should think, a better scope than medicinal leaves simply. Outlines of "Lectures by Pharmacists" were published in our issues for February 22, March 1, and March 8, 1890, and some useful suggestions might be gathered from our little 1*s.* book, "Scientific Mysteries."

116/64. *W. H.*—Glycerin-papain.—The following will give a good preparation:—

| | |
|---|---|
| Papain .. .. .. .. .. .. | grs. 290 |
| Hydrochloric acid .. .. .. .. | ♏j. |
| Glycerine .. .. .. .. .. | ʒx. |
| Chloroform water .. .. .. .. | ℥viij. |

M.S.A.

Each drachm contains 2 grs. of papain.

116/61. *J. J. B.*—Golden Hair-dye.—For this, supply hydrogen peroxide 10 vols. strength.

116/65. *W. E. C.*—To Clean Artificial Teeth.—These should be soaked in water every night and cleaned by brushing with prepared chalk to which a little carbolic acid or eucalyptus oil has been added.

112/37. *Myrrh.*—To overcome the difficulty complained of in connection with Glycerine Suppositories, made according to formula, published page 878, June 23, 1894, add a little more glycerine, and heat over water-bath. The froth complained of is due to the temperature having risen higher than necessary when melting the stearine; it will require to be skimmed off. This, apart from loss of material, ought not to interfere with the usefulness of the mass. Did you use a water-bath, or melt over an open flame?

112/10. *P. & F.*—The sample of **Moustachine** for stiffening moustaches "à l'empereur," consists of mastic, soap, oil, and S.V.R. Try this :—

| | |
|---|---|
| Mastic .. .. .. .. .. .. | ℥iv. |
| Curd soap .. .. .. .. .. | ℥j. |
| Castor oil .. .. .. .. .. | ℥iv. |
| Oil of lavender (spike) .. .. .. | ♏ss. |
| Rectified spirit .. .. .. .. | ℥viij. |

Macerate for four days and filter.

Similar formulæ will also be found under heading "Brilliantine," page 85, January 20, 1894.

---

112/7. *J. W. W. A.*—To perfume **Aromatic Lozenges** or **Cachous**, the synthetic perfumes prepared by a French maker (Delaire & Co.) are suitable. They are clean and permanent, and Burgoyne, Burbridges & Co. are agents for this country. For a compound flavour follow the lines of formula published on page 294, February, 1893.

---

114/24. *Lichen.*—The white salt used by your customer to **Stain Oak a beautiful Ebony**, was most likely dried sulphate of iron, the wood to be brushed over with a hot solution, allowed to dry, and then brushed over with an infusion of nutgalls. After drying, wipe with a damp sponge, and finish off with oil. Pyrogallic acid would also make a suitable stain.

---

111/44. *Insecta.*—The **Insects** found in your Drug-room seem to be a form of the beetle-tribe. We are not in a position to name it; it does not seem to be one commonly found in this country. It may have originated in some sack or bale of seeds or dried roots, and the only remedy we can suggest would be fumigation with sulphur or tobacco. This year seems extremely propitious for the propagation of most varieties of insects.

---

112/54. *G. K.*—It is impossible in this column to go into the various methods **For Curing Hams, Bacon, &c.** Each district has its own method, giving the distinguishing flavour, &c. In some parts of Yorkshire, for example, the mixture of salt, saltpetre, sugar, &c., is rubbed in dry, and the hams are hung in a current of dry warm air for about twelve months. In other districts, the flesh is soaked in brine for a time, dried, flavoured, and smoked a little, creosote or pyroligneous acid being brushed over at a certain stage of the smoking. The age and feeding of the pigs has also a great deal to do with the quality of the finished product. A formula for **Essence of Smoke** has been published :—

| | |
|---|---|
| Barbados tar .. .. .. .. .. | 30 minims |
| Caramel .. .. .. .. .. .. | 1 dr. |
| Port wine .. .. .. .. .. .. | 5 ,, |
| Vinegar .. .. .. .. .. .. | 5 ,, |
| Salt .. .. .. .. .. .. .. | 2 ,, |
| Water .. .. .. .. .. .. | 7 oz. |

Macerate several weeks and filter.

---

115/63. *Byron.*—For **Chronic Catarrh of the Nose**, try pulv. alkalinæ co. (G. H. Ph.) :—

| | Grains. |
|---|---|
| Sodii bicarb. .. .. .. .. .. .. | 7 |
| Pulv. boracis .. .. .. .. .. .. | 7 |
| Sodii chlorid. .. .. .. .. .. .. | 7 |
| Pulv. sacch. alb. .. .. .. .. .. .. | 15 |

Mix.

This quantity may be dissolved in 2 ounces of warm water, and used with a nasal syringe or as a gargle. If desired it may be snuffed up the nostril, or a pinch placed on the back of the tongue; if used in this manner, the addition of 1 grain of menthol to the above quantity of powder is a decided improvement.

---

121/39. *Sacchara.*—**Calomel and Sugar.**—If these substances are mixed and exposed to light chemical change takes place, and we should not advise you to use the powder if it shows any signs of decomposition.

112/52. *Niger.*—To **Clean Crust from Sea-shells**, so as to expose the inner mother-of-pearl surface, carefully immerse each shell in dilute hydrochloric acid; turn about frequently in the acid. The outer crust being more readily acted upon by the acid, it is possible, with a little practice, to denude the rough coating with little injury to the inner one. On removing from the acid, place for a few minutes in a vessel of clean water under the tap.

---

117/20. *A. B. C.*—**Liquid Dentifrice.**—From your description we should imagine the preparation to be something after the following :—

| | |
|---|---|
| Acid. boric. .. .. .. .. .. | ℥ss. |
| Tr. krameriæ .. .. .. .. .. | ℥j. |
| ,, myrrhæ .. .. .. .. .. | ♏xx. |
| Aq. coloniensis .. .. .. .. | ℥xx. |

M.

---

99/55. *H. M. R.*—Before trying to explain your customer's problem as to why impure sulphate of iron is more useful in the ferrotype photographic process than the pure salt, we should like to be sure that it is a fact. Our experience is opposed to this. In Hardwick and Taylor's "Photographic Chemistry," we read (page 121) :—"Commercial sulphate of iron, being prepared on a large scale, requires to be recrystallised to render it sufficiently pure for photographic purposes." And on page 62, it is stated that "An aqueous solution of protosulphate of iron absorbs binoxide of nitrogen from the air, and becomes of a deep-brown colour. As binoxide of nitrogen is itself a reducing agent, it has been erroneously supposed by some that this changed solution is a more energetic developer than the plain protosulphite."

---

116/10. *C. C. C.*—The 6-cell (3-pint) **Bichromate Battery** should be ample for working any ordinary form of electrolytic apparatus, but as you do not state what kind of apparatus you have, and what you want to electrolyse, this first question cannot be answered very definitely. For instance, if you attempt to electrolyse copper sulphate with this battery, the current will be far too great, and the copper will be liberated in a finely divided non-coherent oxidised state resembling black mud. In such a case one cell will be quite sufficient. If, however, the electrolysis is to be kept up for any length of time (say, over eight hours) a more constant battery than the bichromate, such as a Daniell, is needed. (2) Your battery should be just the thing for **Electro-cautery Purposes**, and we do not understand why you have not obtained sufficient heat; probably the solution is worked out, and requires renewing. It seems now that the needle you mention is not intended for cauterising purposes, or, at any rate, was not applied in the proper manner. If it has only one wire attached to it, and the other electrode is applied to another part of the body, it would be impossible to get a sufficiently strong current through the body to heat the needle without an enormously strong battery, and then not without possible fatal results to the patient. In cauterising no part of the current passes through the body, there being a complete metallic circuit. You should try again with the point of the needle touching the electrode; then, unless the battery has run down, you will possibly be successful. No appreciable shock through the skin could be obtained from your 6-cell battery without a coil of some kind; though, if you put the wires in your mouth, you will feel a rather unpleasant tingling sensation. With the addition of a medical or induction coil very powerful effects will be obtained; in fact, only half the number of cells would be requisite. An old electric bell with the gong removed, and the handles attached to the terminals, will give a fairly powerful shock when worked with two or three cells. (3) A Rheostat will not enable you to increase the current from the battery, but its strength can be gradually diminished thereby to any required value. (4) Maycock's "First Book of Electricity and Magnetism," published by Whittaker & Co. at 2*s.* 6*d.*, is a good book for beginners. Afterwards you might take up Jamieson's "Magnetism and Electricity," published by Griffin at 3*s.* 6*d.* Both these books deal with the science, and not the practical applications of electricity. (5) **Mercury may be Purified** with the aid of the electric current

in the following manner:—The mercury is put into a suitable trough, and a constant stream of slightly acidulated water caused to flow over its surface. The mercury is to be connected to the negative pole of the battery, and the water to the positive pole by means of a metal plate hung just above, but not touching, the mercury. The passage of the current will drive all impurities to the surface of the mercury, whence they will be carried off by the water.

---

116/18. *Infandum.*—**Mahogany-stain for Floors, &c.:—**

| | |
|---|---|
| Red wood | 8 oz. |
| Methylated spirit | 4 lbs. |

Macerate in a warm place for a week, and filter.

Or—

| | Oz. |
|---|---|
| Alkanet-root | 1 |
| Cape aloes | 2 |
| Dragon's-blood | 2 |
| Methylated spirit | 30 |

Macerate for a week, and filter.

Or—

| | Oz. |
|---|---|
| Dragon's-blood | 4 |
| Caustic soda | 2 |
| Water | 10 |

Boil together. Strain, and make up to 4 oz. with water.

**Walnut-stain**—Dissolve 2 oz. of permanganate of potash in a quart of warm water.

---

117/57. *T. T.*—**Detergent for Removing Paint from Wood:—**

| | |
|---|---|
| Washing-soda | 2 lbs. |
| Quicklime | 1 lb. |
| Water | 1 gal. |

Slake the lime with part of the water, dissolve the soda in the remainder, and mix. Allow to stand for twenty-four hours, and decant the clear liquid.

---

112/32. *Hic et Ubique.*—Chalk or ordinary carbonate of soda is generally used by brewers to neutralise Ale which has Turnod Acid. "Alt acid" is a speciality which is used for this purpose, and as a preservative.

---

111/73. *Eboracus.*—The best work to read, before commencing dealing in spectacles, is Hartridge on "Refraction of the Eye," published by Churchill (price 6*s.*).

---

118/13. *Beccabunga.*—Voice-lozenges.—For a good general lozenge you cannot improve on troch. eucalypti comp.

---

118/35. *Climax.*—**Camphor-ice:—**

| | |
|---|---|
| Cetacei | ℥ij. |
| Ceræ alb. | ℥ij. |
| Adipis prep. | ℥viij. |
| Ol. amygdal. | ℥xvj. |
| Camphoræ | ℥ij. |

Melt the fats together, and add the camphor last.

---

118/55. *Cyclostyle.*—**Copying-ink for Cyclostyle** is composed of boiled linseed oil, ground with lamp-black and Prussian blue, of each q.s. to give a deep-black colour.

---

119/58. *Ajax.*—Crome d'Amandos.—See the Diary for 1894.

---

119/72. *Vernet.*—Tinctura Opii Aquosa.—See the Diary for 1894.

---

119/47. *Picrotoxin.*—Chillio Pasto.—See *C. & D.*, February 13, 1892, page 249.

117/41. *Beta.*—**Pil. Cochiæ:—**

| | |
|---|---|
| Aloes Barb. | ℥iv. |
| P. colocynth. | ℥ij. |
| P. jalapæ | ℥j. |
| P. scammon. res. | ℥j. |
| Ol. caryoph. | ℥iij. |
| Treacle | q.s. |

M. Ft. mass.

---

117/52. *Erin.*—**Essence of Ylang-Ylang:—**

| | |
|---|---|
| Ol. ylang-ylang | ♏xxxij. |
| Ol. neroli | ♏xx. |
| Ambergris | gr. iv. |
| Ess. jasmin. | ℥j. |
| S.V.R. | ℥viij. |

M.

The delicacy of the perfume is greatly improved by its being kept for a month or so before use.

---

120/66. *C. J. B.*—**Ung. Capsici.**—The B.P.C. formulary gives the following:—

| | |
|---|---|
| Oleo resin. capsic. | ʒj. |
| Cera flav. | ℥ss. |
| Adeps benz. | ℥iv. |

Melt the wax and lard, add the oleo resin, and stir till cool.

---

119/68. *Æsculapius.*—The efficacy of the **Toothache and Neuralgia Mixture**, which you say is very popular, will be increased rather than otherwise by the alteration which we suggest:—

| | |
|---|---|
| Quininæ sulph. | gr. x. |
| Ferri sulph. | gr. xxiv. |
| Acid. sulph. dil. | ♏xxiv. |
| Magnes. sulph. | ℥j. |
| Spt. chloroformi | ʒiij. |
| Tr. gelsemii | ʒss. |
| Glycerini | ℥j. |
| Aq. ad. | ℥vj. |

M.

Dose: A tablespoonful thrice daily after food.

You may add a drachm or two of tr. hyoscyami for the sake of colour, but it will have little therapeutic effect.

---

119/64. *Inquirer.*—(1) The Pharmaceutical Council is cautions in regard to supplying duplicates of Minor certificates which are alleged to have been destroyed, but duplicates have been granted where the evidence is convincing. Send the remains of yours to the Secretary and Registrar, with a polite request for another, and if the examiners who signed your certificate are still on the Board your request may be granted. The note sent to those who have passed the Preliminary examination is not regarded as a certificate; it is a letter pure and simple, and would not be replaced. (2) In the event of your requiring evidence of having passed the Preliminary examination for medical registration, the Secretary would give you his note of hand to that effect.

---

## INFORMATION WANTED.

---

*The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—*

115/3. Makers of bassorin, an ointment-base.

**Liq. Amyl. Hyd. Co.**—*Chemist* (in reply to query 115/34) asks, "Is it possible this is anodyne colloid, made with hydride of amyl?"

*Whelan* (119/52) also asks what it is (but he describes it as "Lin. amy. hyd. co."), and adds, "It is ordered by a Buxton doctor."

SEASONABLE AND SALEABLE.

# HAYWARD'S SHEEP DIPS.

**THE HAYWARD'S YELLOW PASTE** is the most improved form of Sulphur Sheep Dip. Is well advertised. Gives both seller and user satisfaction. 1/- Tins sufficient for 20 to 25 Sheep. Mixes with Cold Water. Liberal Terms. No Cutting.

**"EUREKA" WEED KILLER.** Mixes 1 to 50. Safest and Most Effective. Selling Freely.

**OUR OTHER LINES.—Maggot Fly Powder; Cattle, &c., Washes; Foot Rot Paste; Cattle Oils, &c., &c.**

ONLY ADDRESS—**TOMLINSON & HAYWARD,** Mint Street Chemical Works, **LINCOLN.**

ESTABLISHED 1842. PLEASE WRITE FOR PRICE LIST.

# CRYSTAL PALACE JOHN BONDS GOLD MEDAL MARKING INK

Sale ever increasing at Home and Abroad, showing the appreciation by Trade and Public of this original and genuine Preparation.

**GIVEN AWAY**

And enclosed with every 6d. & 1s. Bottle and every 6d. & 1s. Marking Ink or Pencil, a voucher entitling Purchasers to their Re-vulcanised Gold Medal Rubber Stamp. Name in full or Monogram, for Marking Linen or Paper. Original Patentee of the Marking Ink Pencil.

**WHOLESALE and EXPORT DEPOT:—75 SOUTHGATE ROAD, LONDON, N.**

*Send for Illustrated Price Lists and Samples for Travellers and Showrooms.*

LARGEST SALE OF ANY MARKING INK IN THE WORLD.

# Vinolia Soap

IS NOW SUPPLIED

SCENTED WITH THE FOLLOWING FAVOURITE PERFUMES:—

## 1/6 per box of 3 Tablets:

Blondeau's Glycerine & Cucumber Soap.

## 2/- per box of 3 Tablets:

Blondeau's Lys de France Soap.
Blondeau's Marechal Neil Soap.
Blondeau's Oriental Soap.
Blondeau's Heliotrope Soap.
Blondeau's Marequil Soap.
Blondeau's Musk Lavender Soap.

## 2/- per box of 3 Tablets:

Blondeau's Jequilla Soap.
Blondeau's Cold Cream Soap.
Blondeau's Lettuce Soap.

## 2/6 per box of 3 Tablets:

Blondeau's White Rose & Cucumber Soap.

## 3/- per box of 3 Tablets:

Blondeau's Violet Soap.
Blondeau's Opoponax Soap.

BLONDEAU ET CIE., RYLAND ROAD, LONDON, N.W.

HIGHEST AWARD, CHICAGO, 1893.

# T. & H. SMITH & Co.

MANUFACTURERS OF

**MORPHINE AND ITS SALTS.**
In powder and crystals.
**MORPHINE TARTRATE.**
Introduced by us and specially prepared for hypodermic treatment.
**CODEINE AND ITS SALTS.**

**APOMORPHINE MURIATE.**
**CAPSICINE.** **CINCERINE.**
**JALAP RESIN.** **ALOIN.**
**SCAMMONY RESIN.**
**JALAPINE.** **SALICINE.**

**CHLOROFORM.**
Absolutely pure and answers all official tests.
Also **CHLOROFORM RECT.**
From Alcohol.
**ERGOTINE.**
**CANTHARIDINE.**

*Inventors and Sole Manufacturers of the* **TELA VESICATORIA** *or Blistering Tissue.*
**By far the most efficient Cantharides Vesicant in existence.**

EDINBURGH Address—21 Duke Street. LONDON Address—12 Worship Street, E.C.
NEW YORK Office—20 Cedar Street. DILLON & CO., Agents.

# LOFTHOUSE & SALTMER,

## MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL,

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of **CITRATE OF MAGNESIA.**

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and **Blaud's Pill Capsules,** equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

# MAGNESIA

## CARBONATE, CALCINED, AND HYDRATE.

## PURE FLUID MAGNESIA.

THE WASHINGTON CHEMICAL CO., LIMITED, WASHINGTON, COUNTY DURHAM, ENGLAND.

LONDON AGENTS—MESSRS. CLIFFORD CHRISTOPHERSON & CO., 17 Great Tower Street, London, E.C.

# HUBBUCK'S PURE OXIDE OF ZINC

THROUGH THE CHIEF WHOLESALE HOUSES.

# THOMAS HUBBUCK & SON, LIMD

(ESTABLISHED 1765).

## 24 . LIME STREET, LONDON, E.C.

# ONE OF THE WET ROOMS.

JOHN RICHARDSON & CO., LEICESTER, LIMITED.
INCORPD. 1891. CENTENY. 1893.

To Chemists and Druggists,
Wholesale and Retail.

It having been brought to our knowledge that certain Chemists in the United Kingdom are selling as Bromidia a substance not manufactured by Messrs. Battle & Co., We Hereby Give Notice that legal proceedings will be instituted to restrain any persons from selling under the title or name of Bromidia, or any name which will be liable to be mistaken for the same, any substance not of the manufacture of Messrs. Battle & Co. We are the Sole Wholesale English Agents for this preparation.

Yours faithfully,

ROBERTS & CO.,
76 New Bond St.,
London, W.

16th June, 1894.

---

# TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

**Mrs. WINSLOW'S SOOTHING SYRUP,**

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),
W. RENAUD, Managing Director.
33 Farringdon Road, London.

# THOMAS TYRER & CO.

STIRLING CHEMICAL WORKS. ESTABLISHED 1844.

**STRATFORD, LONDON,**

GUARANTEE ALL THEIR PREPARATIONS FOR

**PHARMACY, PHOTOGRAPHY, & ANALYSIS.**

---

**SPECIALITIES: SCALE PREPARATIONS,**

**ETHERS, PYROXYLINS,**

**COLLODIONS OF ALL KINDS.**

---

# DUNCAN, FLOCKHART & CO.

*Wholesale and Export Druggists,*

**EDINBURGH.**

---

# CHLOROFORM

(DUNCAN'S).

PREPARED FROM PURE AND METHYLATED SPIRIT.

Also CHLOROFORM (BLUE LABEL).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in stoppered bottles, securely luted, and in hermetically sealed flasks when required.

*N.B.—We guarantee all the above* CHLOROFORMS *to be* PURE CHLOROFORM, *answering all the tests of the British Pharmacopœia.*

# MALT EXTRACT.

## E. LECONTE & CO^Y.

THE LARGEST MALT EXTRACT MANUFACTURERS IN THE WORLD.

*3 GOLD MEDALS AND LEGION OF HONOUR for Scientific Improvements in the Manufacture of Malt Extract, &c.*

**DIASTASIC MALT EXTRACT,** prepared in Vacuo from the finest Barley, and specially made for Manufacturing Chemists to combine with other preparations. Also for Medicinal purposes, Brewers, Vinegar and Wine Makers, Bakers, and Confectioners.

**MALT EXTRACT MANUFACTURED ANY DIASTASIC STRENGTH REQUIRED.**

**MALT EXTRACT AND COD LIVER OIL.**

**Samples and Quotations on Application.**

Wholesale & Export—HORSESHOE ALLEY WAREHOUSES, BANKSIDE, LONDON, S.E.

MANUFACTORIES—

ESTAIRES, LA GORGUE, MARCOING, & DUNKIRK, FRANCE.

DO NOT FAIL to STOCK!

IT SELLS WELL WHEREVER INTRODUCED, AND **BEARS A GOOD PROFIT.**

THIS Popular Laxative

# CASCARA JELLY

The most Palatable Preparation of Cascara Sagrada.

Is thoroughly efficacious, and very agreeable in taste and flavour.

*In 2-oz., 4-oz., 8-oz., and 1-lb. glass jars.*

Price on application to the Manufacturers,

**C. R. HARKER, STAGG & MORGAN**

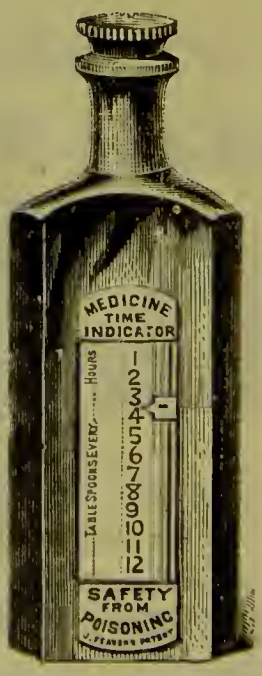
15 Laurence Pountney Lane, LONDON, E.C.

*A GOOD LINE FOR THE TRADE.*

# MEDICINE TIME INDICATOR

**And POISON PREVENTIVE.**

This invention is for use on Medicine Bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations **not** intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indicate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.




*Special Terms to the Trade. Apply to the Patentee—*

**J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.**

# B. KÜHN, 36 St. Mary-at-Hill, LONDON

SPECIALITIES—

**PAPAÏN** (Dr. Finkler & Co). In Powder, Pills, Tablets, Lozenges, and Liquors.

**ETHYL CHLORIDE** (Dr. Bengué's Patent). In Glass Bulbs with Patent Spray & Stopper.

**ANESTILE** (Dr. Bengué's Patent). In Nickel-plated Copper Cylinder.

The New Anæsthetics for **PAINLESS DENTAL & MINOR SURGICAL OPERATIONS.**

**SALICYLIC ACID** (Knoll & Co.)

**SALICYLATE OF SODA** (Knoll & Co.)

**SALOL** (Knoll & Co.)

**EXALGINE** (Brigonnet)

*Samples, Prices, Pamphlets, Analytical and Medical Reports, &c., sent Post Free by*

**B. KÜHN, 36 ST. MARY-AT-HILL, LONDON.**

# LEO'S COMPRESSED DRUGS

Maintain their high reputation against all comers for general excellence of quality and finish.

Ammon. Brom.
Ammon. Chlor.
Antifebrin.
Antipyrin
Bismuth Subnit.
Chloralamid
Ipecac. Powd.
Ipecac. & Opium
Pepsine, B.P.
Phenacetin
Potass. Bicarb.
Potass. Brom.

When ordering specify LEO'S.

They are supplied by all the Wholesale Houses.

Potass. Iodide
Quinine
Salol
Salicin
Soda Bicarb.
Soda Mint
Soda Salicylate
Sulphonal
Sulphur Compound
Urethane
Voice (Potass. Chlor., Borax and Cocaine)

## COMPRESSED CHLORATE of POTASH.

## CHLORATE OF POTASH & BORAX.

Quotations given for large and small quantities.

[2]

**LEO & CO., 8 CREECHURCH LANE, LONDON, E.C.**

Prepared by NORTON'S LTD., 21 Spital Square, LONDON, E.
Proprietors of "CODFREY'S EXTRACT OF ELDER FLOWERS," &c.

# SUGAR-COATED PILLS.

*Prepared with Drugs of the Finest Quality.*

Net Price List, cash with order, in 10-gross tins.

SAMPLES ON APPLICATION.

| | Per Gross. | | Per Gross. |
|---|---|---|---|
| Pil. Aloes c. Ferri .. | .. 6d. | Pil. Colo. c. Hydr. | .. 1s. |
| ,, ,, c. Asafœtid. .. | 7d. | ,, Ol. Ricini .. | .. 6d. |
| ,, Blaud's .. .. | .. 5d. | ,, Opil (gr. j.) .. | .. 1s. |
| ,, Colo. Co... .. | .. 11d. | ,, Podophyllin (gr. ¼) | 9d. |
| ,, ,, c. Hyos. .. | 1s. | ,, Rhei Co. .. | .. 6d. |

DISCOUNT ON ORDERS OF 100 GROSS.

**DAVID P. WALKER, CHEMIST,**
NEW CITY ROAD, GLASGOW.

# HOMOCEA
## OINTMENT.

CURRENT PRICES—

1/1½ size ... **9/6** per dozen.
2/9 ,, ... **28/6** ,,

Terms Cash, less 2½ per cent. for 1 Gross lots, and 5 per cent. for 5 gross and upwards. No less quantity than 3 dozen supplied. When Cheque accompanies the Order, Carriage will be Paid.

**HOMOCEA COMPANY,**
21 HAMILTON SQUARE,
**BIRKENHEAD.**

The Hon. Surgeon to his Excellency the Viceroy of India prescribes "CLARKE'S BLOOD MIXTURE" largely, and speaks highly of its efficacy in skin affections, &c.—A. JOHN & CO., Chemists, &c., Agra, India.

Counter Bills and Posters, with Name and Address, also Show Cards, on application. Printed matter supplied in any Language for Foreign Agents.

CAUTION.—Immediate proceedings will be taken against all persons pirating the Trade Mark, "Blood Mixture" (Registered No. 3,275), Labels, Wrappers, Bills, or Advertisements, or in any way infringing the rights of the Sole Proprietors,

THE LINCOLN & MIDLAND COUNTIES DRUG CO., LINCOLN, ENGLAND.

# C. F. BOEHRINGER & SOEHNE,
**WALDHOF, near MANNHEIM,**

MANUFACTURERS OF

B. & S. BRAND **FERRATIN** B. & S. BRAND

(*R.L.P., No.* 818, 13.1.93).

SULPHATE OF QUININE, and all other CINCHONA PREPARATIONS.

ALSO OF

**ACETANILID, CAFFEINE, COCAINE, CHLORALHYDRAT, CUMARIN, GALLIC ACID,**
GLYCERINE, HELIOTROPIN,
**SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.**

STOCKS KEPT IN LONDON, GLASGOW, AND DUBLIN.

**AGENTS.—LONDON: Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, E.C. GLASGOW: Messrs F. R. MUELLER & CO., 47 Waterloo Street. DUBLIN: Mr. JOS. LECKY, 26 Eustace Street.**
Sole Agents for Australia—Messrs. RABONE, FEEZ & CO., SYDNEY, N.S.W.

(PRELIMINARY NOTICE.)

# PARTRIDGE SHOOTING

Commenced on the 1st, and with it we were in a position to supply Samples and descriptive Preliminary Notes of our new Fat Food, "MARROL," devised on the lines of the "Virol" patent, *omitting the fat and protead of Eggs*, and confining ourselves to Ox-bone Marrow and Hopped malt Extract, thus producing a Fat Food pure and simple, in an easily digestible form, that we have carefully tested in tropical heat as to its permanency with satisfactory results; therefore, we are now in a position to fill our export orders with confidence; and last, but not least, we have fixed the PRICE OF "MARROL" so that a 7-oz. Bottle shall be sold at ONE SHILLING—a price that leaves us a very small margin of profit on actual cost of production, so that it may be ordered to patients whose incomes are limited without running them to an expense they *sometimes can ill afford*. We hope, therefore, that Medical Men will grasp this preliminary notice; and we further hope our efforts in putting a food of this class on the market, AT THIS LOW PRICE, will meet with the extra support we have anticipated.

"MARROL" is less sweet than "Virol"—intended, therefore, more as an ADULT food; and, while the former consists of Bone-marrow with Malt Extract, "Virol," as is generally known, contains in addition to these ingredients (Bone-marrow and Malt Extract) the fats and proteids of Raw Eggs *plus* the lime-salts of the Shells of Eggs, and is sweeter, therefore MORE SUITABLE AS A FOOD FOR CHILDREN OR INFANTS.

THE LIQUOR CARNIS CO.,
Aston Clinton, Bucks, and
28a Farringdon Street, London.

WILLIAM SHEPPERSON,
Proprietor.

# HENRY MATTHEWS & CO.

## LEWIN'S MEAD, BRISTOL,

## DRYSALTERS, OIL MERCHANTS, IMPORTERS, BOILERS, AND REFINERS,

MANUFACTURERS OF PAINTS, COLOURS, AND VARNISHES,

For Contractors, Painters, Coachbuilders, Shipbuilders, and Ship Stores; also of

GREASE FOR MILLS, RAILWAY WAGONS, CARRIAGES, CARTS, WATER-WHEELS, WIRE ROPES, &c.

*Samples and Prices on application. Telegraphic Address—"HENRY MATTHEWS, BRISTOL."*

# £1,000,000

This is the sort of fortune many an old-fashioned Varnish Maker has left behind him, but

# PINCHIN, JOHNSON & CO.

## 23 Billiter Street, London, E.C.

Do not aspire to these big figures, but are anxious to prove that their

# VARNISHES

(In 1 Gallon Cans free) as well as their

## OILS AND COLOURS

are the BEST and CHEAPEST in the Market.

Telegrams—"PINCHIN LONDON." WRITE FOR PRICE LISTS AND SAMPLES. Telephone -No. 2241.
43

# LESLIES' PLASTERS

Leslies' Patent Pliable Tape-plasters, Fine Calico, Holland, or Pink Cambric, in decorated Tin Boxes, ¼, ½, ¾, 1 and 1½ in. wide, 1s. each, 9s. per doz.; extra widths, 2 in. and 3 in., 1s. 3d. and 1s. 6d. each.

Tapes, Silk, ⅜ in., 1s. each, 9s. doz.; 1 in., 2s. each, 18s. doz.

Leslies' Surgical Case Tape Plasters (assorted widths), 10s. 6d.

Leslies' Brown Holland Self-adhesive Plaster, in 6 or 12 yard Tins, 6 in. wide, 3s. and 5s. 6d.

Leslies' Porous Plasters (easily removed), in 1 and 3 doz. boxes. 7½ by 5 in., or in 1 or 6 yard decorated Tins.

**LESLIES' ANTISEPTIC DRESSINGS.**

LESLIES' LINT, ABSORBENT WOOL, BANDAGES, AND ALL SURGICAL DRESSINGS.

*Write for Lists to* **LESLIES, LTD.** Bond Court House, WALLBROOK, **LONDON, E.C.**

# "NATIONAL" RUBBER ADHESIVE PLASTER.

{Trade Mark.

On Strong Cotton Cloth.

Will always *stick at once*, and *perfectly*, in any temperature. without warming.

In Tins containing { 7½ inches × 1 yard; 7½ " × 6 "; 12 " × 5 " } and on Handsome Spools { ½ in., ¾ in., ⅞ in., 1 in. 1½ in., 2 in., and 3 in. wide.

MANUFACTURED BY

**A. de St. DALMAS & CO., LEICESTER.**

# VINCENT WOOD'S SURGICAL APPLIANCES.

**THE LARGEST MAKER IN THE WORLD.**

Suspenders, Belts, Bath Gloves, Trusses, Elastic Hosiery, Chest Expanding Braces, Protectors, Enemas, Bandages, &c.

Telegraphic Addresses—
"Acme London." "Elastic Nottingham."
ESTABLISHED 1840.

3 ST. ANDREW'S STREET, LONDON, E.C.
Steam Works—Nottingham, & Herne Hill, S.E.
Stand at Industrial Exhibition, Earl's Court, Section 14, near Main Entrance.

# DR. MARTIN'S PURE RUBBER BANDAGES.

Registered Trade Mark.

For the Radical Cure of Varicose Veins, Ulcers, and other Diseases of the Leg.

CAUTION.—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations.*

*Complete Price List, Trade Discount, and Dr. Martin's Pamphlet post free.*

| No. | PRICES. | Feet | Inches | Each |
|---|---|---|---|---|
| 3A. | Thin, for ankle, elbow, wrist, and forearm | 6 | 2½ | 3/6 |
| 3. | Thick " " " " | 6 | 2½ | 4/- |
| 1B. | Thin, for leg below knee.. | 10½ | 3 | 5/6 |
| 1A. | Thick " " .. .. | 10½ | 3 | 7/6 |
| 8. | Thin, for leg and knee .. | 14 | 3 | 7/6 |
| 7. | Thick " " .. | 14 | 3 | 9/6 |
| 9B. | Thin, for leg and thigh .. | 21 | 3 | 10/6 |
| 9A. | Thick " " .. | 21 | 3 | 13/6 |

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS,**
8 DUKE ST., MANCHESTER SQUARE, LONDON, W.

# THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH,

12 PALL MALL EAST, LONDON, S.W.,

*SOLE AGENTS FOR*

## DR. WARLOMONT'S CALF VACCINE.

Tubes, 2s. each. Half Tubes, 1s. each. Pomade in Vials, 5s.

**HUMAN VACCINE** (from healthy children only, microscopically examined and source quoted).—Tubes two-thirds full, 1s. 8d. each. Tubes one-third full, 1s. each. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin Points (uncharged), 1s. per dozen. Vaccine Ejectors, 1s. 3d. each, including postage.

Office hours, 10 to 4; Saturdays, 10 to 2. P.O.O.'s (including postage, and crossed "London and Westminster Bank") with orders, payable to EDWARD DARKE, Secretary.

# GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.

# JOHN OAKEY & SONS, LIMITED,

MANUFACTURERS OF

Glass and Flint Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

## OAKEY'S WELLINGTON KNIFE POLISH

Prepared expressly for Oakey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines. Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

## OAKEY'S NON-MERCURIAL SILVERSMITH'S SOAP,

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

## OAKEY'S "POLYBRILLIANT" (REGISTERED).

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste. Tins, 1d., 2d., 3d., and 6d. each.

## WELLINGTON BLOCK BLACK LEAD,

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

**WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.**

*Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.*

# PAYING LINES FOR CHEMISTS

**FLESH GLOVES.**
Per doz.
3d. Turco .. .. 2/-
6d. " .. .. 2/8
1/- " 4/6 & 5/6
Glass-top Counter Boxes of 1 doz. 6d., 3/6; 1 doz. 1/-, 6/-
A variety of patterns in stock.

**SMELLING-SALT BOTTLES.**
200 patterns in stock. Ask for New Price List.

**FLAVOURING ESSENCES.**
Per doz.
½-oz. bots. .. .. 2/3
1-oz. " .. .. 4/-
Almond, Vanilla, Lemon, &c.

**SPRAY PRODUCERS.**
1/- Single Ball, per doz., 8/-.
Good Double Ball Sprays at 15/-, 21/-, 24/-, 27/-, and 33/-.

**BATHING CAPS.**
6d., 4/6; 1/-, 7/6 per doz.

**SPONGE BAGS.**
BEST QUALITY.
No. 1 2 3 4 5 6
4/6 5/6 7/- 8/6 10/- 12/-
Per doz.

**SPONGES ON CARDS.**
At per doz.
1d. 2d. 3d. 4d. 6d. 1/-
6d. 1/- 1/6 2/- 3/- 6/-

**SPONGE NETS.**
Per doz. 4/6, 8/-, 12/-.

**INSECT POWDER TINS.**
Per gross.
1d., 2/3; 3d., 5/6; 6d., 7/9; 1/-, 9/-.

**LAVENDER SMELLING SALTS.**
THE IMPERIAL.
6d. retail, per doz. 4/-.

**LEMON JUICE EXTRACTORS.**
New shape to hold the Juice.
Per doz., 3/6.

**LIME JUICE AND GLYCERINE.**
6d., 3/4: 1/-, 6/8 per doz

**CARDED GOODS: SOOTHERS.**
Per doz.
3d. Bone & Rubber Ring .. .. .. 2/-
6d. " " " 3/-

**COMBS.**
THE "SAMPSON."
Size 7 in. 7½ in. 8 in.
Per doz. 2/- 2/6 3/-

2d. Perfumes, 1/3 per doz.
2d. Musk Lavender, 1/2 per doz.
1d. Flower Seeds, 6/- per gross.
3d. Flexible Hair Curlers, Per card, 1/9, &c., &c.

Druggists' Sundries of all kinds, such as Vials, Corks, Dispensing Flats, Wax, Twine, Trusses, Bougies, Catheters, Bottle Caps, Measures, Pill Boxes, Willow Boxes, Elastic Appliances, &c., &c., kept in stock.

**FRANCIS NEWBERY & SONS**
(ESTABLISHED A.D. 1746),
Druggists' Sundriesmen and Perfumers,
**1 & 3 KING EDWARD ST., LONDON, E.C.**

# SHIRLEY'S CORNER!

LINES FOR
## SPRING AND SUMMER TRADE.

**THE "PRINCE" OF LAVENDER SALTS.**—In Actinic Green, Amber, and White Bottles, with Stopper in form of Prince of Wales's Feathers, charming line, 4/- doz.

**No. 349.**—The 1894 "Monster Bottle," assorted colours, empty 3/6 doz., filled with Strong Ammonia 4/- doz.

**MARVELLOUS VALUE.**—Lavender Water and Cologne, in Tube-shape Bottles, with Sprinklers, 2/6 doz. Selling in thousands.

**Id. SALTS.**—Assorted colours, 7/6 gross, 3 doz. in cartoon with card for window.

**Id. DISINFECTING SHELLS.**—To hang up, 7/- gross, assorted colours, 6 doz. in box with card for show.

**Id., 3d., & 6d. INSECT POWDER.**—5/- gross; 3d., 1/6 doz.; 6d., 3/- doz. Empty boxes for same, 1/6, 3/6, and 4/9 gross.

*WISE BUYERS WON'T DELAY, BUT STOCK AT ONCE.*

! ! ! Buyers of Mag. Cit., write us first and save money; we can offer special bargains ! ! !

**SHIRLEY BROS., 105 Whitecross St., E.C.**

## CHEMICAL DISINFECTANT.
10 and 15% CARBOLIC Antiseptic and Deodorising Powder.
Bags and casks free.
**AGENTS WANTED** to supply Corporations and large users.
6d. and 1/- Decorated
4/- and 8/- per doz. Boxes.
*Special terms for 5 gross and upwards, with agent's name and address thereon.*

## CHESHIRE BIRD LIME.
In 1d., 2d., and 3d. tins. Also in 1, 2, 3, and 7 lb. Tins and Casks, for large consumers and the trade.
*The new and attractively labelled tin boxes are very convenient and handy for use and retailing.*
SAVE TIME AND TROUBLE.

## "COAGULINE"
(TRADE MARK).
Transparent Cement for Broken Articles.

## LAVA.
A fusible imperishable Cement for Stone and Iron Work Bedding, &c.

## CUE CEMENT, CUE-TIP FIXERS
(Brass or Wood).
TIPS, WAFERS, CHALKS.

## SAPO LINI,
OR
**LINSEED SOAP**
*(A Saponified Linseed Jelly).*
In Brown Windsor or "Rosotto" Tablets.

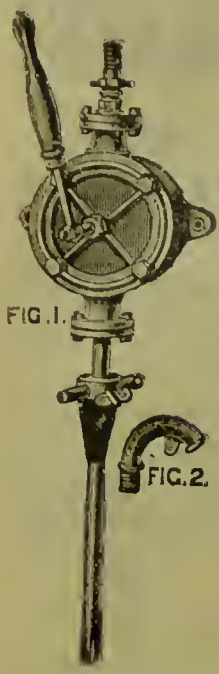
*Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets &c., &c., on application.*

**KAY BROTHERS LIMITED.** Laboratory and Works, ST. PETERSGATE MILLS. **STOCKPORT.** Founded A.D. 1786. Incorporated 1887

# DRUGGISTS' SUNDRIES
AND
# PATENT MEDICINES.

Chemists are invited to apply for the newly issued **1894 CATALOGUE** POST FREE ON APPLICATION.

**THE CHEMISTS' ASSOCIATION, LTD., CURTAIN ROAD, E.C.**




BUY THE BEST

# OIL PUMP

AND SAVE

## OIL, TIME, MONEY.

THOUSANDS IN USE.

We have bought the Stock of these Pumps from

**MESSRS. PONTIFEX & WOOD;**

*SHOE LANE, LONDON,*

Who have given up this part of their business, and it is our intention to continue same.

*We hold a Good Stock, and can give Prompt Delivery.*

Write for full particulars and prices of The "Farringdon" Patent Oil Pumps to

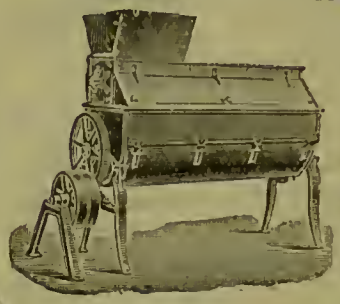
## W. H. WILLCOX & CO.

**34 & 36 Southwark Street,**

**LONDON, S.E.**

GARDNER'S PATENT

## "RAPID" SIFTERS & MIXERS



Are now working in Almost Every Trade where DRY POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation.

For HAND or POWER

Prices from 48/- to £90.

CATALOGUES FREE

WM. GARDNER, Engineering Works, GLOUCESTER.

## THE NEW BOOT-WARMER.

Chemists are respectfully referred to page 415 of THE CHEMISTS' AND DRUGGISTS' DIARY, 1894, where Illustrations and important Press Opinions of this saleable article are given.

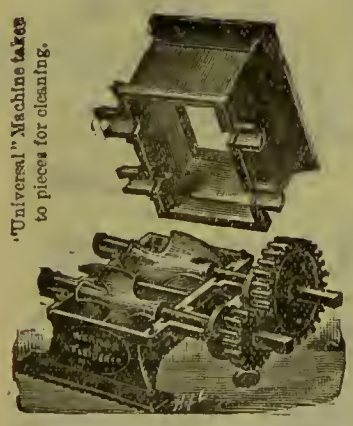
The *Westminster Budget* of September 5, 1893, says:—"The 'boot drier and warmer' of Messrs. Belden is an improved boot tree, by means of which boots are not only kept in shape, but heated and dried while on the tree. The necessary heat is obtained by the insertion of a small iron, which has been previously heated, into a perforated case fixed in the hollow part of the tree. A strong sock of soft material is let into the bottom of the tree, and the warmer, lying immediately on this, will become a boon to large numbers of men and women, especially to those who are obliged to be out 'in all weathers.'"

*All Sizes and Shapes kept in stock or obtained on the shortest notice.*

Manufactured by

**E. & W. BELDEN,** 167 GT. DOVER STREET, BOROUGH, **LONDON, S.E.**

To be obtained of all Wholesale Houses. [2]



"Universal" Machine takes to pieces for cleaning.

Size 3, Type 1., for 1-lb. Mass

THE "UNIVERSAL"

## Kneading & Mixing Machine,

Used by all the largest Pill Makers.

SUITABLE ALSO FOR

OINTMENTS, POWDERS, AND MASSES of any Consistency.

## PILL MASSING MACHINES.

PILL PIPERS, CUTTERS, ROUNDERS, COATERS, "SPIRAL BRUSH" POWDER-SIFTERS (WITH INTERCHANGEABLE SIEVES), AND EVERY ACCESSORY FOR THE PILL ROOM.

**WERNER, PFLEIDERER & PERKINS (LIMITED),**

43 Regent Square, GRAY'S INN ROAD, W.C.

SHOWROOMS:—117 QUEEN VICTORIA STREET, E.C.

*Contractors to the War Offices of all the Great Powers & other Governments.*

# THE WANT OF THE DAY!

NO MORE SOFT LINEN WHEN STARCHED.

*Used in the Royal Laundries.*

*Once Tried, Always Wanted.*

*Should be used in Every House.*

*Makes Old Linen like New.*

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.

CRITCHLEY'S STARCH GLOSS

Registered No. 40376.

From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. SIR,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried. Yours truly.

To Mr. CRITCHLEY. E. ELDER.

Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY

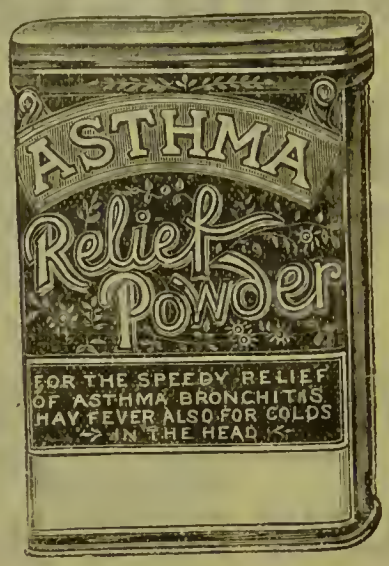
**T. CRITCHLEY,** CHEMIST AND WHOLESALE DRUGGIST, **BLACKBURN.**

LONDON DEPOT—2 BEECH STREET, E.C.

# HAWLEY'S COUNTER ADJUNCTS.

With Chemist's own name and address printed free for 3 dozen.

"The Counter Adjunct," a monthly leaflet of novelties in Materia Medica and Adjuncts, post free on application.



## LAXATIVE FRUIT LOZENGES.

Price 9/- doz., 6 doz. 8/6.

## DEPILATORY.

REMARKABLY EFFICACIOUS.

6d., 3/9; 3 doz. 3/8; 6 doz. 3/6.
1/-, 7/-; " 6/9; " 6/6.
1/6, 10/-; " 9/6; " 9/-.

## MOSQUITO CONES.

REALLY OF VALUE.

1/- size, 7/6; 6 doz. 7/-; 12 doz. 6/9.

## ASTHMA RELIEF POWDER.

GENERALLY EFFECTS A CURE.

1/- size, 7/6; 6 doz. 7/-; 12 doz. 6/6.

## SAVARS COCA WINE.

Introduced in 1875.

FIG. 5.—A concentrated restorative tonic, standardised to contain ½ grain of pure alkaloid per ounce.

*Must now be Stamped.*

**Price**—4/- bottles, 40/- per doz.; 7/-, 69/- per doz. Unstamped for dispensing, 33/- and 57/- per doz.

**EVANS, LESCHER & WEBB,**

60 BARTHOLOMEW CLOSE,

**LONDON.**

[6]

LIVERPOOL: EVANS, SONS & CO.

MONTREAL (CANADA): EVANS AND SONS (LIM.).

# "YORKSHIRE" BIRDLIME.

Excels all others in tenacity. The only Birdlime in the market which is suitable in all particulars for the manufacture of

## STICKY FLY PAPERS.

SOLE MAKERS—

**WILLIAM BLEASDALE & CO.**

**YORK,**

Who will be pleased to forward samples and prices on application.

HEBBELER'S

## "RAT BISCUITS"

*Modern Rat and Mouse Poison,*

Acts like a charm. It attracts the Mice and Rats and destroys them wholesale, while there is absolutely no danger attending its use, as it contains No Poison for Human Beings or Domestic Animals.

**HEBBELER'S RAT & MOUSE POISON**

is, in this respect, quite distinct from other Rat and Mice Poisons, which, as is well known, have caused innumerable losses of human life.

Retail Price ... ... ... 6d. per Box.

Wholesale, 1 dozen, 4/-; 1 gross, 42/-, carriage paid to any part of the United Kingdom. Cash with order.

OF ALL WHOLESALE HOUSES, or SOLE PROPRIETOR—

**K. HEBBELER, 149 Houndsditch, LONDON, E.**

# WANDSWORTH CHEMICAL WORKS, LTD.

## CARBOLIC DISINFECTANTS.

Silver Medal, Edinburgh, 1890. Highest Award.

CARBOLIC POWDER: Pink, White, or Grey

Any strength. Packets, Tins, and in Bulk.

CARBOLIC ACIDS: CRUDE, 95/97% PALE, and 97/99% WATER WHITE.

SANITARY FLUID or CREOSOL:

Bottles, Drums, and Casks.

**IMMEDIATELY SOLUBLE IN COLD WATER.**

Gold Medal, Jamaica, 1891. Highest Award.

## "PINEOTAS" DISINFECTANTS.

"PINEOTAS" POWDER, FLUIDS, AND OIL.

SPECIALLY SUITABLE FOR INDIA & THE EAST.

## CONCENTRATED FLUID SHEEP DIP

CARBOLIC AND "PINEOTAS" SOAPS, PETROLEUM JELLY, CHLORIDE OF LIME, &c.

**WORKS & WHARF: THE CAUSEWAY, WANDSWORTH, S.W.**

Agency—116 PRINCESS STREET, MANCHESTER. AGENTS WANTED.

# FEVER AND SMALL POX HOSPITALS, CANAL BOATS, &c.

*Uniform Quality and Strength Guaranteed.*

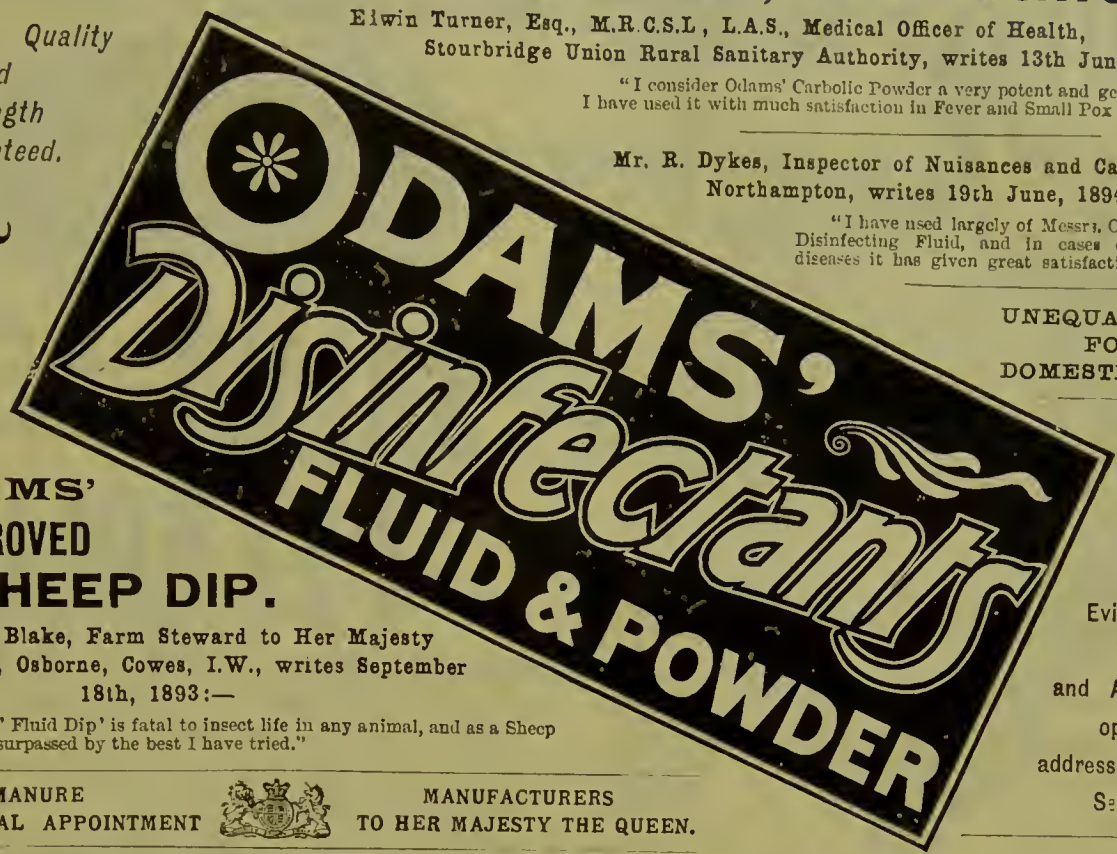
Elwin Turner, Esq., M.R.C.S.L., L.A.S., Medical Officer of Health, Stourbridge Union Rural Sanitary Authority, writes 13th June, 1894:—

"I consider Odams' Carbolic Powder a very potent and genuine article. I have used it with much satisfaction in Fever and Small Pox Hospitals."

Mr. R. Dykes, Inspector of Nuisances and Canal Boats, Northampton, writes 19th June, 1894:—

"I have used largely of Messrs. Odams & Co.'s Disinfecting Fluid, and in cases of infectious diseases it has given great satisfaction."

UNEQUALLED FOR DOMESTIC USE.




## ODAMS' IMPROVED SHEEP DIP.

Andrew Blake, Farm Steward to Her Majesty the Queen, Osborne, Cowes, I.W., writes September 18th, 1893:—

"'Odams' Fluid Dip' is fatal to insect life in any animal, and as a Sheep Dip it is not surpassed by the best I have tried."

For Evidence of Value and Agencies open, address the Secretary.

MANURE BY SPECIAL APPOINTMENT  MANUFACTURERS TO HER MAJESTY THE QUEEN.

ODAMS' MANURE AND CHEMICAL COMPANY, Limited. HEAD OFFICE: 116 Fenchurch Street, LONDON, E.C.

# DAY, SON & HEWITT,

LARGEST MAKERS IN THE WORLD OF

## HORSE & CATTLE MEDICINES.

**THE GREATEST ANIMAL RESTORATIVE OF THE AGE.**

For Fret, Colic, or Gripes in Horses, Hoven or Blown Cattle and Sheep, and General Debility in Stock. Of exceptional value for Colds, Chills, Scour, Diarrhœa, &c., &c.

Price 1s. 9d. per Bottle; 20s. per dozen.

### THE CHEMICAL EXTRACT.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per bot.

### THE CASEODYNE.

Used as Laudanum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Colic or Enteritis, and for severe forms of Diarrhœa.

Price 3s. 6d. per Large Bottle.

### THE RED DRENCH.

For Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Pleurisy, Hidebound, Red Water, &c. For cleansing and checking feverish symptoms in Cows and Ewes after parturition.

Price (Cows) 13s. per doz.; (Ewes) 3s. 6d. per doz.

THE "ORIGINAL"
**STOCK-BREEDER'S MEDICINE CHESTS,**
For Horses, Cattle, and Sheep. Prices, £1 8s. 9d. and £2 16s. 6d.

THE "ORIGINAL"
**HORSE-KEEPER'S MEDICINE CHESTS,**
For all ailments in Horses. Prices, £1 10s. and £2 17s. 6d.

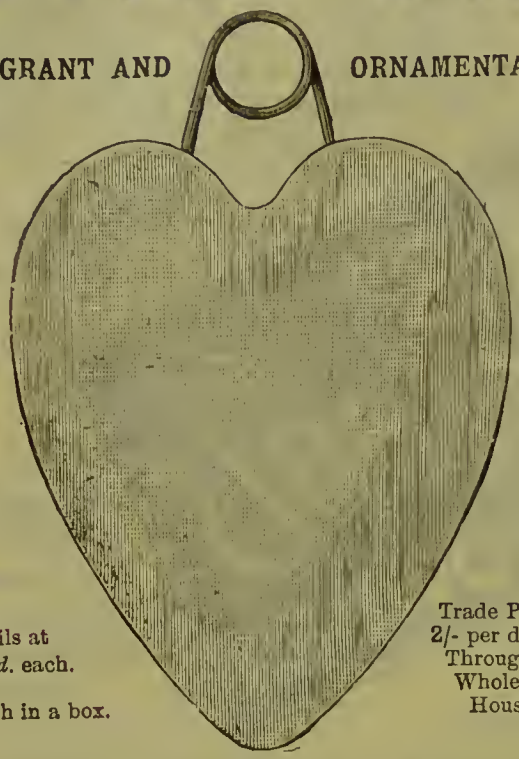
## ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.

Liberal Discounts to Foreign Buyers. Trade Terms and full particulars on application.
Attractive Show-cards and Handbills sent with each order.

THE CITY OF LONDON

# SANITARY HEART

FRAGRANT AND ORNAMENTAL.



Retails at 3*d.* each.

Each in a box.

Trade Price 2/- per doz. Through all Wholesale Houses.

AND

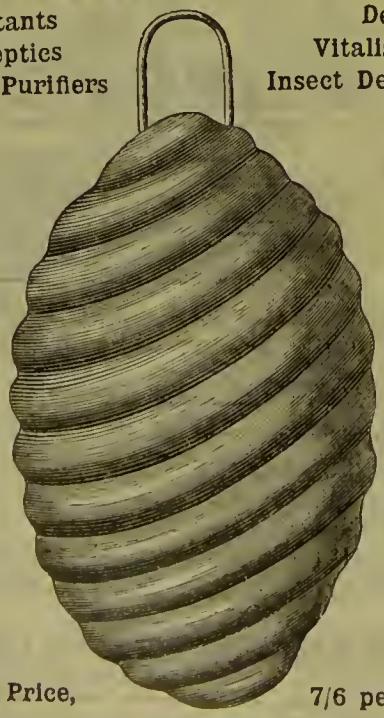
THE PENNY

# SANITARY PENDANT

Disinfectants
Antiseptics
Air Purifiers

Deodorisers
Vitalisers
Insect Destroyer

SAFEGUARDS AGAINST EPIDEMICS AND ALL INFECTIOUS DISEASES.



KEEP FLIES FROM ROOMS AND MOTHS FROM CLOTHES.

Trade Price, 7/6 per gross.

SOLE PROPRIETORS AND MANUFACTURERS—

J. BEEDZLER & CO., Manufacturing Chemists,

20 NORTON FOLGATE, E.C. Established 1700.

50

PARIS EXHIBITION, 1889.

PRIZE MEDAL AWARDED TO

# "SALVO PETROLIA"

Absolutely Genuine Paraffinum Molle of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities—

**WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.**

PACKED IN TINS, 1, 5, 10, 14, 28, 56, and 112 lbs.—Also in 3-cwt. casks.

*Samples and Prices on application.*

# "EDIBLE SALVO PETROLIA,"

For Public Speakers, Actors, and Singers.

1*s.* 6*d.* per Tube.

# "OLEUM DEELINÆ"

(REGISTERED).

Universally adopted by the Medical Profession for

**OPHTHALMIA, SCURVY, RINGWORM, ECZEMA, AND ALL SKIN-DISEASES.**

For External and Internal Irritation of every kind.

PACKED IN CASES—

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles.

Pint Bottles, 4*s.* 6*d.* each, less Trade Discounts.

For Hospital and Dispensary purposes in larger quantities.

**TESTIMONIALS MAY BE HAD UPON APPLICATION.**

The above are Manufactured Solely by the Proprietors,

# THE DEE OIL COMPY.

LIMITED.

Works—SALTNEY, CHESTER.

LONDON OFFICES—

**49 LIME STREET, E.C.**

Liverpool, Dublin, Manchester, Glasgow, Hull, Cardiff, Bristol, Belfast, Barrow-in-Furness, Nottingham, Paris, Hamburg, &c.

# BREFFIT'S BOTTLES

AND

# GLASSWARE

## OCTAGON TOILET & PERFUMERY BOTTLES.

CUT WHITE FLINT GLASS AND CUT STOPPERED.

| Size 1-oz. | 2-oz. | 4-oz. | 8-oz | 16-oz. |
|---|---|---|---|---|
| 5/- ... | 5/6 ... | 6/6 ... | 12/- ... | 21/- per doz. |

## HAND MADE SHOP ROUNDS

| Size | 8-oz. | 10-oz. | 12-oz. | 16-oz. | 20-oz. | 32-oz. | 40-oz. | |
|---|---|---|---|---|---|---|---|---|
| Unstoppered ..... | 1/9 | 2/- | 2/3 | 2/6 | 3/- | 3/8 | 4/6 | per doz. |
| Narrow Stoppered | 3/2 | 3/6 | 3/8 | 4/- | 4/9 | 5/3 | 6/- | ,, |
| Wide Stoppered... | 3/8 | 3/10 | 4/- | 4/9 | 5/3 | 6/- | 6/9 | ,, |

Labelling, 3/- per doz.

## GLASS * DRAWER * LABELS.

SEND FOR SAMPLES.

## PLATE-GLASS SHELVES

AT WORKS PRICES.

## SEND FOR REVISED PRICE LIST.

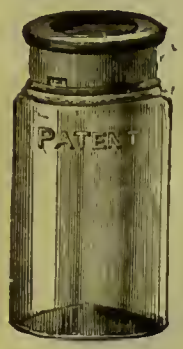
WE HOLD LARGEST STOCKS WITH GREATEST VARIETY.

OFFICES AND SHOWROOMS:

## 83 UPPER THAMES ST., LONDON,

Adjoining Cannon Street (S. E. Railway) Railway Station.

# R. H. BARRETT'S PATENT CAPPED BOTTLE




THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

**NOTICE REDUCTION IN PRICES.**

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/- 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

## R. H. BARRETT,

FLINT GLASS BOTTLE WORKS,
THE OVAL, CAMBRIDGE HEATH, LONDON, E.
Telegraphic Address—"FOREFRONT LONDON."

# THE "STIPENDUM" STOPPER CO., LIM.

47 LAMB'S CONDUIT ST., LONDON, W.C.,

MANUFACTURE THE FOLLOWING SPECIALITIES—

"STIPENDUM" CORK STOPPERS, in all sizes.
"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.
"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles.

## "STIPENDUM" GREASE-PROOF COVERED POTS,

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable and the only articles really answering the purpose intended

*To be had of all Druggists' Sundriesmen.* *Wholesale only of the Company.*

# SHOP BOTTLES & JARS

## WITH VITRIFIED (burnt in) LABELS

(*Black Letters on a ground of Pink or White Enamel*).

Labels indestructible and of elegant appearance, forming an even surface with the glass or porcelain. The Jars of best porcelain, thoroughly greaseproof. The Bottles hand-made and of superior quality. Both are unsurpassed by anything in the market in every respect. Also a CHEAPER sort of Bottles and Jars, with labels equally indestructible, but very plain, especially suitable for Dispensaries, &c. Intending Buyers are requested to inspect Samples at

## H. POTHS & CO., 4 CREECHURCH LANE, LEADENHALL STREET, E.C.

SEE OUR ADVERTISEMENT ON PAGE 5 (bottom folio) OF ISSUE OF MAY 13, 1893.

# GLASS BOTTLES

GOOD AND CHEAP.

From Stocks in London or direct from the works.

THE NEW SHAPE FLATS,
With rounded edges, or the ordinary kind, plain or graduated.
3 and 4 ounce .. .. .. .. 8/- per gross.
6 and 8 .. .. .. .. 9/- "

WHITE MOULDED PHIALS.

| ½ oz. | 1 oz. | 1½ oz. | 2 oz. |
|---|---|---|---|
| 3/6 | 3/9 | 4/6 | 5/3 per gross. |

PANEL BOTTLES.

| 2 oz. | 4 oz. | 6 oz. | 8 oz. |
|---|---|---|---|
| 7/- | 8/- | 9/- | 9/- per gross. |

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample bottle sent free on application.

**I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS,**
Francis St., Tottenham Court Road, LONDON, W.C.
Established 50 years. Bankers—London and Westminster Bank.

52

# ADVERTISING BALLOON CO.

ALTRINCHAM, ENGLAND.

Advertising Balloons, printed with name, trade, and address, from 12/- per gross; each Balloon fitted with the improved long nozzle, so that a child can blow them out. We put name, &c., one side, and any figure the other. As a testimony to the quality of our manufactures, the largest advertising firms in the world have adopted our goods in preference to foreign-made articles. Makers of all kinds of Pessaries, Skins, Sheet Rubber Surgical Appliances, &c., &c. Special terms for Shipping and the Wholesale.

*Notice.*—To prevent disappointment, no notice will be taken of application for wholesale terms unless accompanied with *bond-fide* manufacturer's references.

Sample Rooms—9 Newton St., PICCADILLY, MANCHESTER.

*All our own manufactured goods bear the above Trade Mark—3 Balloons.*

# CARD SPACES.

FOR TERMS APPLY TO THE PUBLISHER.


## ORANGE WINE

(VIN. AURANT., P.B.)

Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate. In casks, 13 gallons to 140 gallons; small casks, 3s. 9d. per gallon, carriage allowed if paid within three months. In wine-bottles (not less than 3 doz.) at 9s. per doz., bottles included. Casks and cases extra, and returnable.
*Sample on application.* *Special quotations to large buyers.*

DURRANT & CO., Railway St., HERTFORD.

## PRECIPITATED CHALK, WHITEST & PUREST.

CHEAPEST SELLERS IN THE MARKET.

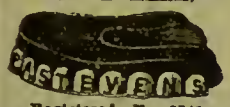
ALSO CHEMICALS, DRUGS AND OILS.

APPLY TO

AUG. LEVERMORE & CO., 8, LIME STREET, LONDON, E.C.

## "SILVERY WHITE GUTTA PERCHA ENAMEL" TOOTH STOPPING

TRADE MARK.




Registered—No. 3745.

P. A. STEVENS, Surgeon-Dentist,
72 MANSFIELD ROAD, N.W.,
SOLE PROPRIETOR AND MANUFACTURER.

Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name. A sample box of 3d. sticks sent post free for 13 stamps. Price list and sample free.

## Fletcher's Hydrobromates

Supplied in Original Bottles ready for Patient's use (stamped), to retail at 4/6 each; also in 1-lb. Bottles for Dispensing, by the Sole Manufacturers:—

Fletcher, Fletcher & Stevenson,
21 Mincing Lane,
London, E.C.

## FREDK. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C. [1]

SPECIALITIES: Glycerine — Gum Arabic — Gum Tragacanth—Pure Beeswax—Honey.

## JUNE'S HEALTH BATH SALT.

A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.

GOOD PROFIT GUARANTEED.

WRITE FOR SAMPLES & TERMS,

ANDERSON & CO., 165 FENCHURCH STREET, E.C.

## CRETA BRAND G W N PRÆCIP.

Much Lighter and Finer than any other in the Market.

Prices and Samples on application to SOLE AGENTS—

*Fletcher, Fletcher & Stevenson,*
*21 Mincing Lane, LONDON, E.C.*

## THORNTON-PICKARD

CATALOGUE POST FREE

ARE THE SIMPLEST & BEST. Time & Instantaneous SHUTTERS

LARGEST SALE IN THE WORLD

Time & Inst., from 15/6; Snap Shot, from 10/-; Focal Plane, from 35/-

THE THORNTON-PICKARD M'F'G COMPANY, ALTRINCHAM, NEAR MANCHESTER.

## THE "MORSTADT" Cachets

Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 18½ grains Quinine or Salicylic Acid.

MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.

SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 6/6.

THOMAS CHRISTY & CO., 25 Lime Street, LONDON, E.C.

## TO LET.

E. H. THIELLAY'S (Registered 1867)

## MOUSQUETAIRE

A bright Fixing Liquid for the special training of the MOUSTACHE. Invaluable to Medical Men, repelling infectious miasma from the respiration. In Cases, with Brush, Pom.-Hongroise, &c., at 2/-, 3/6, 5/-, 7/6, &c.
*Most successful Novelty, 2/- sample post free 15 stamps.*
All Wholesale Houses, or direct from

E. H. THIELLAY.

Parfumeur-Chimiste, Amersham Park, New Cross, LONDON.
(SHOW ROOMS AT CHARING CROSS HOTEL.) [1]

## NESS & COMPANY, DARLINGTON,

SPECIALISTS IN

SHEEP DIPS (Fluid, Paste, Powder) and DISINFECTANTS.

Highest Award World's Fair, Chicago, and Four Gold Medals.

WRITE FOR PARTICULARS AND SAMPLES.

## W. SUTTON & CO.,

76 CHISWELL STREET (late 10 Bow Churchyard), LONDON,

SOLE MAKERS OF THE

ORIGINAL BATEMAN'S DROPS & DAFFY'S ELIXIR.

Proprietary Medicines, Perfumery, Mineral Waters, Lozenges, Druggists' and Photographic Sundries.

PRICE LIST FREE ON APPLICATION.

TELEGRAPHIC ADDRESS—
"IPECAC LONDON."

ESTABLISHED 1833.

TELEPHONE
No. 4369.

# BAISS BROTHERS & CO.

## WHOLESALE & EXPORT DRUGGISTS
AND
## MANUFACTURING CHEMISTS.

MAKERS OF

# CONCENTRATED LIQUORS

## SOLID AND LIQUID EXTRACTS, B.P. & U.S.P.,

And all Pharmaceutical Preparations.

**OL. LAVAND.** "Special."

**ESS. LIMONIS.** "Special"
**1893.**
(Imported direct from Sicily.)

**PERFUMES.** "Special."

**SYR. HYPOPHOSPH. CO.**
(Neutral and Bright).

Finest Non-Freezing Norwegian Cod-liver Oil (1893). Tasteless Castor Oil. English and Foreign Essential Oils. Extract of Malt and Extract of Malt and Cod-liver Oil. In 8-oz. and 16-oz. Amber Bottles with Artistic Labels.

**EUCALYPTUS OIL. "VIRGINIAN" SALAD OIL.**

SPECIAL QUOTATIONS TO LARGE BUYERS.

# JEWRY STREET, LONDON, E.C.

## And NEW BROWN STREET MANCHESTER.

# "THE QUARTERLY THERAPEUTIC REVIEW,"

A record of all the published **NEW REMEDIES**, is published by us in January, April, July, and October.

A Free Copy Mailed, with Prices Current, on Receipt of Business Card.

"Selected" OIL OF LEMON. Genuine and of Guaranteed Purity. This Oil is unsurpassed for aroma and strength.

Finest FRUIT ESSENCES. Prepared from Selected Fruit by Special Process.

Highly Concentrated FRUIT ESSENCES for Flavouring purposes, and Confectionery of every description.

PURE Harmless VEGETABLE COLOURS for Confectionery. Of guaranteed purity and exceptional brilliance.

AND ALL MATERIALS REQUIRED BY
Brewers,
Rectifiers,
Cordial Makers,
Wine and Spirit Merchants,
Mineral Water Makers, &c. &c.

# STEVENSON AND HOWELL.

FELLOWS OF THE CHEMICAL SOCIETY &c &c.

MANUFACTURING CHEMISTS

DISTILLERS AND IMPORTERS OF

ESSENTIAL OILS OF GUARANTEED PURITY

PURE CONCENTRATED SOLUBLE ESSENCES.

FRUIT-ESSENCES

PURE COLORINGS OF EVERY DESCRIPTION

ANALYTICAL AND CONSULTING CHEMISTS TO THE TRADE.

"Extra" Soluble Essence JAMAICA GINGER. For Aerated Beverages, Cordials, Syrups, &c. This Essence is unequalled.

FINE SOLUBLE ESSENCES OF EVERY DESCRIPTION for the production of perfect Aerated Beverages, Cordials, Syrups, &c.

Permanent COLOURING. Of Guaranteed Purity for Brewers, Rectifiers, Mineral Water and Cordial Makers.

Improved FOAM STUFF. For giving a close Head to all Beverages. One Pound is sufficient for 150 gallons of liquor.

AND ALL MATERIALS REQUIRED BY
Manufacturing Confectioners,
Wholesale Tobacconists,
Perfumers,
Soap Makers,
Biscuit Makers,

STANDARD WORKS, 95A, SOUTHWARK ST., LONDON
AND 128, HOPE ST., GLASGOW.

COPYRIGHT. ENTERED AT STATIONERS' HALL.

THE DEADLY FLY TRAP.

A PEST DESTROYED.

# W. SLACK,

Sole Proprietor and Manufacturer of the largest and best make of any known STICKY FLY PAPER in the World, 1d. and ½d. sizes.

These papers are now being Manufactured and Prepared by an entirely new process with Machinery invented by the proprietor, who is thus enabled to execute all orders in large or small quantities with quickness and despatch. So order at once, and do not be put off with inferior makes. Remember delay is dangerous.

# THE DEADLY FLY TRAP.

By Royal Letters Patent. Patent No. 5985.

These papers, the only kind Folded and Sealed by Machinery that do not exude, and opened with ease by a child, keep good in any climate.

WHOLESALE BUYERS & SHIPPERS SHOULD WRITE AT ONCE FOR SAMPLES & TERMS POST FREE.

Address: THE EXOR. OF W. SLACK. OFFICES: 53 ST. SEPULCHRE GATE.

WORKS: WEST LAITH GATE, DONCASTER, ENGLAND.

Telegrams: "TRAPS DONCASTER." Telephone communication between Offices and Works.

SOLE LONDON AGENTS: TIDMAN & SON, BUSHELL STREET, E.

SOLE SCOTCH DEPOT: 5 OSWALD STREET, GLASGOW. G. B. LIVINGSTONE, MANAGER.

HOMES A COMFORT.

THE DEADLY FLY TRAP.

# IN PERFORATED TOILET ROLLS—WE LEAD.

## "SANICO," "QUEEN," "BRITISH No. 3," "BRONCO," & "BEL-CAP" BRANDS.

The "BEL-CAP" contains 2,000 sheets guaranteed, of the finest quality thin paper, and should be stocked by every Druggist.

Sample dozen, 8/6. Retails at One Shilling.

*CHEMISTS SHOULD ASK THEIR WHOLESALE HOUSE, OR SEND TO US DIRECT, FOR OUR LIST.*

THE "BRITISH" PAPER CO., Banner St., GOLDEN LANE, E.C.

WHOLESALE & EXPORT orders for

# MASON'S

PERFUMED SOLUTION OF

# CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

TERMS UPON APPLICATION.

# FINEST CRUSHED LINSEED.

GUARANTEED ABSOLUTELY PURE.

NO OIL EXTRACTED, NO BUFFAM ADDED.

£15 per ton, 16/6 per cwt., 8/6 per 56-lb. bag, carriage paid; or put up in tins for Retailers. Liberal Discounts to Hospitals and Wholesale Buyers. Samples Free. Feeding Linseed a Speciality.

SIZER BROS., Seed Crushers, TOWER OIL MILLS, HULL.

# THE "GLEDHILL" AUTOMATIC CHECK AND VOUCHER TILLS.

UP-TO-DATE DESIGNS.
UNPARALLELED VARIETY.
COMPREHENSIVE FEATURES.
WORLD WIDE FAME.

G. H. GLEDHILL & CO.

PATENTEES AND MANUFACTURERS.

TRINITY WORKS, HALIFAX, ENGLAND.

THE

# "FLY CEMETERY."

BY ROYAL LETTERS PATENT.

## FREE FROM POISON.

**The ORIGINAL and by far the BEST Sticky Fly Paper in the Market.**

**ANNUAL SALE, MILLIONS.**

**Retail Price One Penny.**

Much superior to the old-fashioned poisoned blotting-paper article.

No more poisoned flies dropping about over one's food carrying the possibility of disease and death in their train.

THE "FLY CEMETERY" CATCHES THE FLIES AND STICKS TO THEM.

Beware of the many spurious imitations which are in the market, and which for the most part disappoint the purchaser.

SOLD BY ALL THE LEADING WHOLESALE HOUSES.

**LIBERAL TERMS TO THE TRADE.**

SAMPLES AND TESTIMONIALS FROM THE MANUFACTURERS,

## TUNBRIDGE & WRIGHT, READING.

North of England Depot: 4 Gallowgate, Newcastle-on-Tyne.
French Agency: 35 Rue St. Martin, Cognac.
*Telegrams*—"FLIES READING."

# THE PERFUMED STICKY FLY ENTICER

**Buchan's Patent.**

The BEST and MOST ATTRACTIVE FLY PAPER in the MARKET. NO LEAKY EDGES. NEVER BECOME DRY.

**ONE PENNY EACH.**

## DEATH JAM FOR KILLING WASPS

(Patented). Most Alluring and very Sticky. Raspberry, Strawberry, &c. 6d., 1/-, & 2/6 Tins.

Of the Leading Wholesale Houses, and from the Inventor and Manufacturer,

**DAVID D. BUCHAN, CHEMIST, FRIOCKHEIM, N.B.**

Sole Export Agents—BURGOYNE, BURBIDGES & CO., 16 Coleman Street, London, E.C.

# STICKY FLY PAPERS.

It is interesting to note the process of evolution in Sticky Fly Papers. First those spread on Newspaper, next the common folded varieties, and lastly the bordered paper—THE GRIP—the only one of its kind in the market. It has no folded edges, the gum cannot exude, being hermetically sealed by a surrounding filament (protected in England by 3 patents).

I shall be pleased to forward samples of this year's improved manufacture, and would ask you to compare THE GRIP with other makes, both as regards the appearance and tenacity or grip of the special gum I use.

These papers are held in stock by the leading wholesale houses.

**Patentee and Sole Manufacturer — CHRISTY STRONG, READING.**

# JOHNSON, MATTHEY & CO., LIMITED.

Telephone No. 6568.

**HIGHEST AWARDS:**

LONDON, 1851, 1862, 1865.
PARIS, 1855, 1867, 1878, 1889.
DUBLIN, 1865.
VIENNA, 1873.

A.B.C. and A1 Codes.
Telegrams:
"MATTHEY," London.

AMSTERDAM, 1869.
CHICAGO, 1893
For Metallurgical and Chemical Products, and for Platinum Manufactures.

## NITRATE SILVER, CHLORIDE GOLD, CAUSTICS, CHEMICALS, LABORATORY AND ASSAYING APPARATUS, &c.

REFINERS OF GOLD, SILVER AND PLATINUM, ASSAYERS AND METALLURGICAL CHEMISTS.

*MANUFACTURERS OF PLATINUM APPARATUS.*

**HATTON GARDEN, LONDON.**

THE NEW PERMANENT

# ENGRAVED WINDOW TABLETS,

PRIZE MEDAL, International Health Exhibition, 1884.

IN RUBY, BLUE, AMBER, AND OPAL GLASS.

AWARD OF MERIT, International Sanitary Exhibition, 1881.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.
For Proprietary Articles, 100 8 × 6 Ruby Tablets, £3 15s. 0d.

**J. R. CORSAN,** THE LONDON SAND-BLAST WORKS, **58A GRAY'S INN ROAD, W.C.**

TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.

1895 ARTISTIC CALENDARS.

**S. HILDESHEIMER & CO., LTD.**

14 & 16 SILK ST., E.C.; and at MANCHESTER.

SHOWCARDS, Advertising Novelties, HIGH-CLASS CHROMO PRINTING

# 'TIS TRUE!!

That LARGE CONSUMERS can be supplied with well designed and well printed SHOW CARDS, WRAPPERS, LABELS, LEAFLETS, HAND-BILLS, and every kind of PLAIN & COLORED PRINTING at Low Prices.

Estimates Free. Correspondence Invited.

**TAYLOR BROS., Leeds**

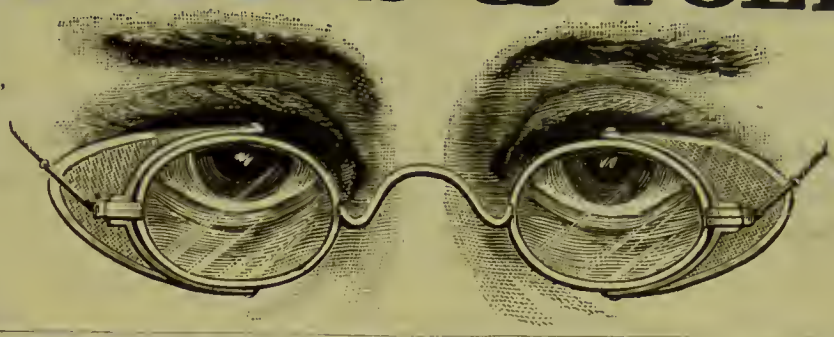
# SPECTACLES & FOLDERS

IN ALL METALS.

CHEMISTS SHOULD NOW STOCK CYCLISTS' EYE PRESERVERS.

7/6, 10/6, 21/- per doz. in Case.

*Samples sent on Application.*



WHOLESALE ONLY

CHEMISTS SHOULD NOW STOCK CYCLISTS' SPECTACLES AND FOLDERS.

*Fully Illustrated Catalogue on Application.*

These Thermometers are constructed with an improved constriction in the bore, which makes it impossible for them to be put out of order, as specially noticed by the *Lancet, Chemist and Druggist*, &c., &c.

For the "Latest" Clinical Thermometer we claim a distinct advantage over the ordinary Thermometer now in use, as it is constructed without the usual contraction or bend in the stem, thus strengthening the tube in the weakest part, and rendering breakage in use or transit less liable.

No. 1A.—Hospital Clinical Thermometer, 4 in., Metal Case .. .. .. .. .. .. .. .. .. .. .. per doz. 18/-

No. 2A.—F. Darton & Co.'s Improved Imperishable Index Clinical Thermometer, constructed with small bulb to ensure sensitiveness, in Nickel-plated Cases, with bayonet catch or screw fastening, 4 in. .. .. .. .. .. .. .. .. .. .. per doz. 21/-

No. 3A.—F. Darton & Co.'s Improved Oval or Flat-backed Clinical Thermometer. The tube is perfectly Flat on the one side, and with a broad white strip of opaque enamel, which throws the dividing and figuring up very distinctly, leaving a good flat surface for name and address. Price, in Oval Case, very compact .. .. .. .. .. .. .. .. .. .. .. per doz. 27/-

## MAGNIFYING INDEX THERMOMETERS.

No. 4A.—Hospital Lens-front Magnifying Clinical Thermometer, 4 in., in Metal Case .. .. .. .. .. .. .. .. per doz. 30/-

No. 5A.—Darton's Improved Imperishable Index Clinical Thermometer, fig. 24, specially constructed with lens-front magnifying arrangement, so as to increase the size of the index column of mercury, thus enabling readings to be taken with great facility. Supplied in Nickel-plated Cases, with bayonet or screw fastening.. .. .. .. .. .. .. .. .. .. .. .. .. per doz. 36/-

**RAPID ACTION CLINICALS.** *These Thermometers are constructed to take the Maximum Temperature in 30 secs.*

No. 6A.—Darton's Rapid Action Ordinary, in case, 4 in., per doz., 27/- | No. 7A.—Darton's Rapid Action Lens-front Magnifying, per doz., 48/-

*** *It is advisable to have the Rapid Action Clinicals made with Lens-front magnifying glass, on account of the small bore.*

KEW OBSERVATORY CERTIFICATES, 12/- DOZ. EXTRA.

CLINICALS CAN BE SUPPLIED IN EITHER METAL, WOOD, OR VULCANITE SCREW CASES. SHOW CARDS TO HOLD HALF-DOZ. SENT GRATIS WITH ORDERS.

No Charge for Naming. Centigrade Scale at same Prices. Highest Awards for Meteorological Instruments at Chicago Exposition, 1893

**F. DARTON & CO.,** (Makers to H. M. Government) Clerkenwell Optical Works, **142 ST. JOHN STREET, LONDON, E.C.**

ESTABLISHED 1834. Telegraphic Address—"EXCEPTIONAL LONDON."

From *British and Colonial Druggist.*
January 5, 1894.

"It is one of the best text books we have met with. A few copies of this little work will prove no dead stock to those who deal in photographic materials, and if introduced to the inquiring amateur its sale will probably obviate much of the loss of time and patience incurred in asking and answering questions upon elementary matters. The price is one shilling."

# PRACTICAL PHOTOGRAPHY FOR AMATEURS.

Crown 8vo. Cloth. PRICE 1s.

*Trade Discount 25%.*

13 TO DOZEN.

From *Chemist and Druggist.*
March 10, 1894.

"MESSRS. BARCLAY & SONS, of 95 Farringdon Street, have published a 'Practical Photography for Amateurs' which our expert says is complete, practical, and well up to date. It deals with the choice of apparatus, chemicals, development, the various printings, hand cameras, and all other details of the art; and in an appendix is added a valuable collection of formulæ for developers suited to all the leading makes of dry plates."

**BARCLAY & SONS, LIMITED, 95 FARRINGDON STREET, LONDON, E.C.**

If you are looking for a useful article for Christmas distribution, or as a permanent advertising medium, the most effective

# CALENDARS, DATE STANDS & NOVELTIES

FOR THIS PURPOSE ARE THOSE

## Manufactured by JAMES SPELLER & CO.

NEW PATTERNS FOR 1895 ARE NOW READY.

ILLUSTRATED LIST SENT ON APPLICATION TO

**JAMES SPELLER & CO.**

Wholesale and Export Manufacturing Stationers and Original Makers of all kinds of Advertising Goods,

Charterhouse Stationery Works, GOLDEN LANE, LONDON, E.C.

NO. 62 PERPETUAL CALENDAR.

# EXCHANGE COLUMN.

## TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word—as, *e.g.*, £1 10*s.* 6*d.*

**DEPOSIT OF MONEY.**—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the Exchange Column may remit the amount to us, accompanied by a commission of 6*d.* if the amount is £3 or under; and 1*s.* if over that sum. We acknowledge receipt of deposit to both parties, and hold the money until we are satisfied that either the goods are returned to their original owner or the purchase is completed.

Postal orders and cheques sent as deposit must be made payable to Edward Halse, and crossed "Martin's Bank Limited)."

### FOR DISPOSAL.

#### Formulæ.

For sale, 130 well-tried recipes, neatly copied in book, post, 1*s.* 6*d.* Tully, Chemist, Hastings.

#### Dental.

For sale, cheap, set of forceps in case; Ash's vulcanizer and gauge complete; good workshop lathe and dental engine; case of scalers, &c. "Medical," 54 Bread Quay, Bristol.

#### Shop Fittings.

Glass wall-cases, one 6 ft. long, 7*l.* 10*s.*, and two 8 ft. long, 10*l.* each. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

For sale.—Ebonised glass wall-case, 7 ft. 10 in. long, 8 ft. high; depth, lower half, 16 in.; upper half, 11 in.; 10*l.*; also mahogany wall-cases. B., 315 Regent Street, W.

Sponge-case, very handsome, marble top, plate-glass front and ends, 5*l.* 5*s.*; tooth-brush case, bent plate glass, 35*s.* Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Chemists' shop-fittings, comprising range of drawers with glass labels, shelves and cornice complete; glass-fronted counters, dispensing-screen, mirror centre, glass wall and counter cases, shop-rounds and ointment jars, and every requisite for immediate use; for sale together or separate; great bargains. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Shop-fittings, as good as new, less than half price, consisting of chemists' counter-cases, 10*s.* to 10*l.*; wall-cases, 1*l.* to 20*l.*; tooth-brush cases, 1*l.* to 3*l.*; desk-cases, 2*l.* to 4*l.*; dispensing-screens, 3*l.* to 9*l.*; counters, 1*l.* to 12*l.*; drawers, from 15*s.* to 3*l.* 10*s.* per nest; plate looking-glasses, 5*s.* to 4*l.*; specie-jars, 10*s.* to 3*l.*; carboys, 7*s.* to 21*s.*; shop-rounds, 3*s.* to 9*s.* per doz.; ointment-jars, pink or blue, 3*s.* to 36*s.* per doz.; pill-machines, 12*s.* 6*d.*; marble slab, 2*s.* 6*d.*; glass shelves, gold edges, 1*s.* 6*d.* per lineal foot; glass stands, 3-tier, 12*s.* to 3*l.*; also entire modern fittings for chemist's shop. Natali, 40 Gray's Inn Road, Holborn, London, W.C.

#### Literature.

*British and Foreign Medico-Chirurgical Review*, 72 parts (1860-1877), cost 21*l.*; 30*s.*, or offers. Griffith, Leamington.

#### Miscellaneous

Two tons prime shallots, cheap. R. C. Mason, Bromsgrove.

Dental instruments, stramonium cigarettes, 3 years' *Chemist and Druggist* complete; what offers? 190,25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Specie-jar, 13*s.*; shop-rounds, 40 to 4 oz., cheap; 23 2-quart black store-bottles with caps; square lamp for outside shop; various sizes plate-glass and plate-glass shelves; several years' complete and few odd numbers *The Chemist and Druggist*, the lot for 2*d.* lb.; list sent. 112 High Street, South Woolwich.

### WANTED.

Water or air bed, 72 in. by 30 in; suppository-mould for 24, clamped and plated; condition and price to Adams, Chemist, Shrewsbury.


# OLIVE OIL.

ALL QUALITIES GUARANTEED GENUINE.

J. H. BROWNING & CO., 27 BARTHOLOMEW CLOSE, E.C.

PHILIP JOSEPHS, 54, 68, and 93 OLD ST., GOSWELL RD., LONDON, E.C.

Has always in Stock a large assortment of Second-hand and New Drawers, Counters, Dispensing Screens, Glass Wall and Counter Cases, and every requisite for Fitting-up a Shop within 24 hours at prices less than any other house. Inspection invited.

CLOSED ON SATURDAYS.

ESTABLISHED HALF A CENTURY.

GEO. TREBLE & SON

CHEMISTS' SHOP FITTERS.

PLANS AND ESTIMATES SUPPLIED FREE OF CHARGE.

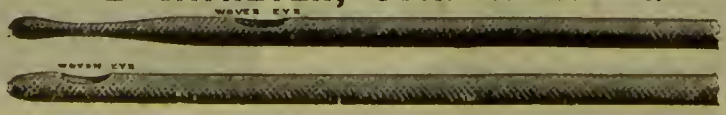
59 AND 61 RHODES STREET, HOLLOWAY, LONDON, N.

ESCHMANN BROS. & WALSH,

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

*To be had of all Surgical Instrument Makers and Wholesale Houses.*




*To be had of all Surgical Instrument Makers and Wholesale Houses.*

# CORN PLASTERS.

## JOHNSON & JOHNSON.

### WHITE FELT CORN PLASTERS.

JOHNSON & JOHNSON.

Particular attention is drawn to the quality and whiteness of the felt used in our Corn and Bunion Plasters. They will not curl at the edges and thus become useless.

In 6*d*. boxes, round or oval, Thin, 2/3 per dozen boxes.

In 6*d*. boxes, round or oval, Thick, 2/10 per dozen boxes.

The advantage of the 6*d*. box is that you are enabled to sell twelve Plasters to a customer where you would only sell one if packed loose.

### RED CROSS CORN PLASTERS.

JOHNSON & JOHNSON.

White felt. Rubber base. Adhere without heat or moisture.

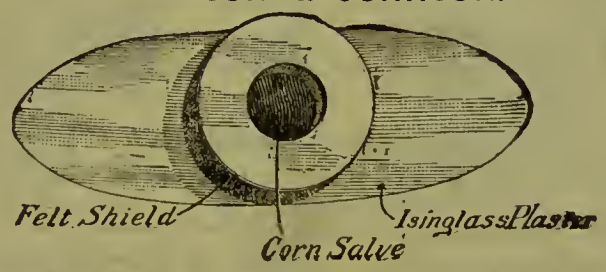
Conform readily to the part to which they are applied.

Always soft and pliable and comfortable to the foot.

In 6*d*. boxes, 3/9 per dozen.

### LONDON CORN PLASTERS.

JOHNSON & JOHNSON.




Briefly described as follows:—The centre is a piece of Salicylic Plaster Mass (40 per cent.), which is placed over the corn.

Around this is a corn shield which prevents pressure from the boot, and the Salicylic from going beyond and injuring the flesh.

The whole is kept in position by means of a strip of adhesive plaster on the back.

**SALEABLE**

BECAUSE

**SENSIBLE.**

Packed in 6*d*. and 1*s*. boxes. Sample dozen mailed to any chemist's address on receipt of 3/6 for the 6*d*. size, or 6/6 for the 1/- size.

### ARNICATED FELT CORN PLASTERS.

JOHNSON & JOHNSON.

These possess the same advantages as the white, in addition to which a percentage of arnica is added to the adhesive material used, in many cases a great advantage.

In 6*d*. boxes, round or oval, Thin, 2/3 per dozen boxes.

In 6*d*. boxes, round or oval, Thick, 2/10 per dozen boxes.

ALSO

### BUNION PLASTERS.

JOHNSON & JOHNSON.

London Bunion Plasters.

Red Cross Bunion Plasters.

White Felt Bunion Plasters.

Arnicated Felt Bunion Plasters.

### EMP. SALICYLIC AND CANNABIS INDICA.

(Salicylic Acid 20 per cent. Cannabis Indica 25 per cent.)

**EMP. SALICYLIC 40 per Cent. EMP. SALICYLIC 25 per Cent.**

These are prepared with rubber base, so that they adhere without heat or moisture. Are spread on strong cotton cloth. In yard rolls 7 in. wide Chemists can cut to any size required. *We specially recommend our Salicylic and Cannabis Indica as a Corn Plaster.*

IN ORDERING FROM THE WHOLESALE TRADE PLEASE SPECIFY JOHNSON & JOHNSON.

## JOHNSON & JOHNSON, NEW YORK, U.S.A.

*London Office—12a LONG LANE, E.C.*

"CONCILIO ET LABORE."

# THE MANCHESTER COLLEGE OF PHARMACY.

Directors { Mr. W. SPENCER TURNER. Mr. CHARLES TURNER, F.C.S.

If you want to know the meaning of the phrase,

"THOROUGHNESS AND SUCCESS"

IN PHARMACEUTICAL EDUCATION,

Write for a prospectus of the M.C.P.,
Ask a student of the M.C.P.,
Join a class in the M.C.P.

# NORTHERN SCHOOL OF PHARMACY,

## 100 BURLINGTON STREET, MANCHESTER.

*Principal*—Mr. GEO. CLAYTON, PH.C., F.C.S.,
*Assisted by* Mr. F. LAWSON, PH.C.

At the Examination held last month the following 16 gentlemen passed from the NORTHERN :—

MINOR.

| | |
|---|---|
| Mr. Arundel, Manchester. | Mr. Opeoshaw, Blackburn. |
| " Barker, Meld. | " Priestly, Bradford. |
| " Dent, Manchester. | " Rothwell, Stratford-on-Avon. |
| " Greenhalgh, Bolton. | " Rook, Maryport. |
| " Hirst, Co ne. | " Sonley, Littleborough. |
| " Keinch, Bolton. | " Stoddard, Manchester. |
| " Mitchell, Hyde. | " Stuttard, Burnley. |
| " Napper, Manchester. | " Young, Manchester. |

The success of the tutorial system is again demonstrated by the above results, only four gentlemen from the "Northern School" failing in the Viva-Voce. THE SESSION COMMENCED ON AUGUST 22.

# VICTORIA UNIVERSITY, OWENS COLLEGE MANCHESTER.

## MEDICAL DEPARTMENT.

Winter Session begins on Monday, October 1, 1894.

Full opportunities for study are offered to students preparing for any of the examinations in Medicine and Surgery in the United Kingdom. Special facilities are also offered in the following Departments :—

DENTAL DEPARTMENT, PUBLIC HEALTH DEPARTMENT
PHARMACEUTICAL DEPARTMENT.

Prospectuses of the Departments, together with particulars of Scholarships, &c., and any further information, will be forwarded on application to H. W. HOLDER, M.A., Registrar.

LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

Contains 90 beds, and, being entirely supported by Voluntary Contributions. Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their residences.

G. A. CROSS, *Secretary-Superintendent.*

NOW READY, SECOND EDITION, CROWN 8VO, PRICE 5s.

A PRACTICAL MANUAL OF

# VENEREAL & GENERATIVE DISEASES;

Including SPERMATORRHŒA, PROSTATORRHŒA, IMPOTENCE, and STERILITY in both Sexes.

**By M. K. HARGREAVES, M.D.**

Assistant Physician to St. John's Hospital for Diseases of the Skin.

LONDON: R. KIMPTON, 128 WARDOUR STREET, LONDON, W.C.

# LIVERPOOL SCHOOL OF PHARMACY,

6 Sandon Terrace, Upper Duke Street, Liverpool,
LATE OF 24 NEWINGTON.

**Principal—R. C. COWLEY, Ph Ch.,**
Analytical and Consulting Chemist.

**NOTICE—Change of Address.**

On account of the steady increase in number of Students, it has been found absolutely necessary to provide increased accommodation.

The New Premises have been pronounced by the Leading Pharmacists in Liverpool and district to be in every way suitable for the purpose. The rooms are lofty, well ventilated, and have the advantage of absolute quietude and perfect sanitation.

At the July Examination the following gentlemen satisfied the Examiners:—

MAJOR.—F. N. MERCER, Farnworth.

MINOR.

| | |
|---|---|
| Mr. J. W. ALLEN, Douglas. | Mr. L. PARRY, Liverpool. |
| " J. B. BECKWITH, Liverpool. | " J. F. RICHARDSON, Liverpool. |
| " J. W. BURGESS, Wigan. | " S. C. ROWLAND, Wrexham. |
| " A. OLAY, Leeds. | " E. T. SANLEY, Littleborough. |
| " D. E. LEWIS, Cardigan. | " J. M. SYMINGTON, Maryport. |

*The New Syllabus, with full particulars, may be had on application to the Principal.*

The Next Course commences the 2nd Monday in September.

**PRELIMINARY STUDENTS TAKEN BY MR. PENDLEBURY.**

*A class for the October Examination commenced Monday, September 3rd.*

# THE METROPOLITAN COLLEGE OF PHARMACY.

**Principal—W. WATSON WILL, F.C.S.**

The next complete Course of Lectures for the Major and Minor Examinations commenced on Monday, September 3, terminating on December 29, for Day and Evening Classes.

Education Thorough and Practical, no Cram System or Notes Method being employed.

**Fees:- Major Course, 6 Guineas; Minor Course, 10 Guineas.**

Absolutely inclusive. No extras of any kind.

A Tutorial Class for October Examination commenced on September 3.

JULY PASS LIST.

MAJOR—5 presented, 5 passed, 4 at first attempt.
MINOR—8 passed, 5 at first attempt.

FOR NEW PROSPECTUS & FULL PARTICULARS APPLY TO
**WALTER S. CARVER, Secretary,**
162 KENNINGTON PARK ROAD, LONDON, S.E.

# OWENS COLLEGE, MANCHESTER.

## PHARMACEUTICAL DEPARTMENT.

The Prospectus of the Pharmaceutical Classes is now ready.

The curriculum for Students qualifying for the Minor and Major Examinations of the Pharmaceutical Society includes :—

CHEMISTRY. BOTANY. PHARMACOGNOSY.
PHARMACY. PHARMACY LAW.

An Entrance Exhibition of £10 (subjects—Elementary Chemistry and Elementary Botany), and two prizes of £10 and £5 are offered competition annually. The Session commences October 1st.

*For all particulars apply to*

H. W. HOLDER, M.A., Registrar.

# 'OBERBRUNNEN' MINERAL WATER

## OF GREAT VALUE IN GOUT.

"Of all the Mineral Springs at Salzbrunn, the Oberbrunnen is the most employed for drinking purposes, as a remedial agent in particular."—PROFESSOR FRESENIUS.

*The use of the "Oberbrunnen" Water is indicated in the following conditions:—*

GOUT
URIC ACID DIATHESIS
GALL STONES
HEPATIC DERANGEMENTS
INTESTINAL CATARRH
ANÆMIA CHLOROSIS RICKETS
THROAT AFFECTION
LARYNGEAL CATARRH
PULMONARY EMPHYSEMA
TUBERCULAR DIATHESIS
SCROFULA

Trade price 9/- per dozen, or 36/- per case of 50 bottles, CARRIAGE PAID.

*Samples and Pamphlet free on application to the Sole Importers—*

# INGRAM & ROYLE.

LONDON: 52 Farringdon St, E.C. LIVERPOOL: 19 South John St.

**DETAILED PRICE LIST (CARRIAGE PAID) OF ALL NATURAL MINERAL WATERS ON APPLICATION.**

# SYPHONS & SELTZOGENES

Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.

SODAWATER MACHINERY AND APPLIANCES
BRATBY & HINCHLIFFE LTD
ANCOATS 146 MINORIES
MANCHESTER LONDON EC
81 ROBERTSON STREET, GLASGOW.

**PRICES.**

**SYPHONS** ... 1/6 1/8 and 1/10 each.

**SELTZOGENES.**

| 1 | 2 | 3 | 4 | 5 | 8 pint. |
|---|---|---|---|---|---|
| 6/- | 6/8 | 7/6 | 8/6 | 10/5 | 16/- each. |

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.

# SYPHONS

BEST QUALITY ONLY SUPPLIED.

TELEGRAMS—"TYLER." Telephone No. 192.

[4]

## HAYWARD TYLER & CO.

Whitecross Street, LONDON, E.C.

---

LIST OF

## MASON'S EXTRACTS

AND

## WINE ESSENCES.

| | |
|---|---|
| EXTRACT OF HERBS | LEMONINE |
| " " DANDELION | CIDERINE |
| " " SARSAPARILLA | HOREHOUNDINE |
| " " HOPS | FOAMINE |
| " " GINGER | WINTER EXTRACT |
| " " GINGER ALE | |

### Mason's Wine Essences.

| | |
|---|---|
| GINGER | SARSAPARILLA |
| RASPBERRY | LEMON SQUASH |
| COWSLIP | CHERRY |
| STRAWBERRY | PEPPERMINT |
| ORANGE | PORT |
| BLACK CURRANT | SHERRY |
| RED CURRANT | CLOVES |
| LEMON | ELDERBERRY |
| LIME FRUIT | DAMSON |
| JARGONELLE | RAISIN |
| QUININE | GOOSEBERRY |
| PINE APPLE | "WARMINE" |

SOLE INVENTORS AND MANUFACTURERS—

## NEWBALL & MASON,

Manufacturing Chemists,

**HYSON GREEN WORKS, NOTTINGHAM.**

12

---

LAURENT-PERRIER

# coca-tonic

A high-class Wine and powerful Nerve Restorative

Prepared by Laurent-Perrier, Bouzy-Reims.

2/-, 3/9, and 7/-

# Champagne

Chemists are requested to write for Show Tablets, Trade Terms, and Special Plan of Introduction in country and town, to the Sole Consignees—

**HERTZ & COLLINGWOOD, 4 Sussex Place, London, E.C.**

---

*ESTABLISHED NEARLY FIFTY YEARS.*

PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

## EUGENE GERAUT & CO.'S

LATEST

## NEW PATENT SELTZOGENE

PATENT No. 18,305.

For the immediate Preparation of Seltzer Water, Eau de Vichy, Soda Water, Sparkling Lemonade, Aërated Waters, &c.

Finding so many complaints through the screws of Seltzogenes getting worn and Customers not screwing taps on tight enough, E. G. & Co. have patented the above improvement in their Seltzogenes, which differs materially from the numerous kinds that have from time to time been introduced, there being no screwing required, thus the machines cannot easily get out of order.

*In place of Screw on Tap, there is a Clip, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at Top, and making perfectly Air-tight the Apparatus.*

**WEAR AND WORKING GUARANTEED. NO MORE SCREWING REQUIRED. TAP CANNOT GET CORRODED.**

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

SOLE ADDRESS—

139 & 141 Farringdon Rd.,

**LONDON, E.C.**

Gazogenes and Seltzogenes Repaired.

# POTTER'S

The Best in the Market.

# HERB BEER

Makes a Splendid Botanic Beer.

IMPROVED FLAVOUR.

# EXTRACT

KEEPS GOOD IN ANY CLIMATE.

Price **3/6** per Dozen, **39/-** per Gross.

*Show Cards, Counter Bills, &c., with all orders.*

# POTTER & CLARKE,

Wholesale and Botanic Druggists,

**5, 6, & 7 RAVEN ROW, LONDON, E.**

# ALBERT M. TODD'S

## Crystal White Oil PEPPERMINT, ETC.

Five Highest Awards—Medals and Diplomas—World's Columbian Exposition, 1893.

CRYSTAL WHITE, DOUBLE DISTILLED, AND REFINED

**PEPPERMINT, WINTERGREEN, ERIGERON SPEARMINT, WORMWOOD, TANSY, &c.**

*These ESSENTIAL OILS are GUARANTEED ABSOLUTELY PURE, and are UNEQUALLED in SOLUBILITY, STRENGTH, FLAVOUR, THERAPEUTIC VALUE, WHITENESS, and GENERAL EXCELLENCE.*

Supplied in Bottles of 1-lb., 8-oz., and 4-oz., with the producer's name blown thereon, being sealed with metallic seals similarly impressed, secured by guarantee of quality over the producer's signature. To secure the most complete introduction possible, the prices are placed much below their true value, bringing the *highest quality produced* within the reach of all.

FOR FULL INFORMATION, ADDRESS

**WIDENMANN, BROICHER & COY.**

GENERAL AGENTS FOR GREAT BRITAIN,

**33 LIME ST., LONDON, E.C.**

*HEAD OFFICE AND WORKS:—KALAMAZOO, MICHIGAN, U.S.A.*

The most extensive Peppermint Plantations and Works in the world. Established A.D. 186[illegible]

# LEMON-OIL TERPENE

(CITRENE),

# ORANGE-OIL TERPENE

(AURANTIENE).

# CARAWAY-OIL TERPENE

(CARVENE),

Obtained as by-products in the Manufacture of the TERPENELESS non-clouding ESSENTIAL OILS of LEMON, ORANGE, and CARAWAY

only by the INVENTOR and SOLE MANUFACTURER,

**HEINRICH HAENSEL,**

PIRNA-ON-THE-ELBE.

*Several tons unsold, for prompt and future shipment, at very Low Prices.*

**WILLIAM POPPELREUTER**

54 PORTLAND STREET,

**MANCHESTER.**

# "PRICE'S GLYCERINE"

*(Originally introduced in 1855).*

Guaranteed free from **ARSENIC**

and all other impurities.

WHOLESALE FROM

**PRICE'S PATENT CANDLE CO.,**

**LIMITED,**

London, Liverpool, and Manchester.

# SOZIO AND ANDRIOLI,

ESTABLISHED A.D. 1757.
GRASSE (FRANCE)

## FRENCH ESSENTIAL OILS:

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme, Rosemary, Spike, Santal, &c.

**NEW CROP.**

Oil of Neroly, Rose Water, and Orange Flower Water.

SAMPLES AND QUOTATIONS ON APPLICATION.

# FRENCH PERFUMES

OUR WELL KNOWN AND VERY SUPERIOR COMPOSITIONS
STOCK KEPT IN LONDON.
Sole Agent. Mr FREDK BOEHM 4, CULLUM St LONDON. E.C

THE BEST

# EAU DE COLOGNE.

THE 4711 BRAND.

THE 4711 BRAND.

Commands the Highest Retail Price.

Beware of fraudulent imitations of our Registered Label.

THE 4711 BRAND.

THE 4711 BRAND.

OF ALL FIRMS IN THE TRADE

Write for New Duty-paid Price List to

**R. J. REUTER, Sole Agent,**
62 NEW BOND STREET, LONDON, W.

# A. MILLAR & CO., DUBLIN

# PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

# THE MAWSON FILTERS.

(BY ROYAL LETTERS PATENT).

GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.

New Illustrated Catalogue and Prof. Tichborne's special report forwarded on application.

THE MAWSON FILTER CO., 137a Pilgrim Street, NEWCASTLE-ON-TYNE.

SOLD BY ALL WHOLESALE DEALERS.

# SALT REGAL, THE QUEEN OF EFFERVESCING SALINES.

In 1/- and 2/- Bottles, is now made up only in GREEN and YELLOW WRAPPERS, and is being widely advertised.
SALT REGAL made up in the old FRITZ SALT REGAL Wrapper is NO LONGER RECOGNISED by the Proprietors, who are open to exchange old goods for NEW at Equal Value. Communicate with Manager,

SALT REGAL, LIMITED, ISLINGTON, LIVERPOOL.

CAUTION.—See you get the GREEN and YELLOW WRAPPER.

# HIRST, BROOKE & HIRST (LIM.), LEEDS,

**Manufacturing Chemists and Wholesale Druggists, Manufacturers of**

# ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

## PUREST IN ENGLAND.

# BOURNE TABLE WATERS

SODA, SELTZER, LITHIA, POTASH, LEMONADE, GINGER ALE, &c

Supplied in Six Dozen Cases, Carriage Paid, by

Analysis, &c. on Application.

R. M. MILLS & CO.
BOURNE,
LINCOLNSHIRE.

West End Agent, D. WHEATLEY, 16A North Audley Street, W
City Agents, RAE & CO., 23 Fenchurch Street, E.C. And of all Chemists
Wine Merchants, Hotels, &c.

## "A CAPITAL IDEA"!!

Said friend JONES, the GO-AHEAD CHEMIST. "I'VE DOUBLED MY TRADE last year since I commenced packing all my customers' prescriptions in Glover's small wood boxes."

And JONES CHUCKLED!!

WOODEN BOXES ALL SIZES MADE TO ORDER

PRICE 14/- per doz. nests of 6 Boxes, planed and hinged, from 5" × 2¼" × 1¼" to 9¼" × 6¼" × 4½". Nests of 6 for Bottles, 4 oz. to 16 oz., at same price. Single nest, 1/6. *Special Terms for Large Quantities to Shippers.*

"CAPITAL, INDEED"!!!

Said the Colonial Shipper. "Those light nested boxes, shipped in cases (each containing ½-gross nests), are just what is wanted, and I am getting repeat orders doubled. We are all indebted to the Makers.

Messrs. C. H. GLOVER & CO., of Hatcham Sawmills, Ormside St., Old Kent Road, LONDON, S.E."!!

# POTASS. CYANIDE,

Nitrate of Silver, Chloride of Gold,

AND OTHER

# CHEMICALS

FOR PHARMACEUTICAL PHOTOGRAPHIC AND TECHNICAL PURPOSES.

FRED^K. BOEHM, 4 Cullum Street, LONDON,

AGENT FOR THE

Deutsche Gold- und Silber-Scheide Anstalt, Frankfurt a/M.


INDEX & BUYERS' GUIDE,

SEE PAGES 23, 24, 25.

TO WHOLESALE AND EXPORT TRADES.

# W. RANSOM & SON

(ESTABLISHED HALF A CENTURY),

MANUFACTURING PHARMACEUTICAL CHEMISTS,

Distillers of Essential Oils and Cultivators of Medicinal Plants,

HITCHIN, near LONDON.

*SPECIALITIES:—*

SOLID AND LIQUID EXTRACTS. EXPRESSED JUICES. ESSENTIAL OIL OF LAVENDER.
ESSENTIAL OIL OF PEPPERMINT. SCAMMONY RESIN. JALAP RESIN.
ELATERIUM. MERCURIAL PILL AND OINTMENT. DRIED MEDICINAL LEAVES.
ENGLISH ACONITE ROOT. ALOIN. ENGLISH DANDELION ROOT.

All Standardised Preparations of the British Pharmacopœia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1867.

# COOK'S PURE TOILET SOAPS.

SPECIALITIES:—COOK'S "SAVON DE LUXE." The most luxurious soap made.

COOK'S "RIVIERA" SOAP. (SUPER-FATTED.) Specially prepared for delicate and sensitive skins.

SPECIALITIES MADE FOR THE TRADE.

COOK'S GOLD MEDAL ANTISEPTIC SOAP. (Thomson's Patent.)

For curing and relieving Eczema, Ringworm, and all skin affections.

SIX PRIZE MEDALS AT GREAT EXHIBITIONS FOR EXCELLENCE AND PURITY.

Can be obtained through

Messrs. S. MAW, SON & THOMPSON, LONDON, or from E. COOK & CO., LONDON.

PERFECTLY PURE. NET CASH WITH ORDER.

# S V R

0/56 0/60

*TINCTURE SPIRIT*

60 O.P. AT LOWEST PRICES. 56 O.P.

PURE ORANGE WINE.

# S V M

0/61 0/64

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per doz. 42/- Per doz.

# BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

*Quotations for* S. V. R. *Methylated Spirit and Finish on application.*

FINEST ORANGE WINE FOR QUININE.

JAMES BURROUGH.

FINE PORT (without tannin)
FINE SHERRY (for Medicinal uses, &c.)
FINE MALAGA (for Steel Wine, &c.)
FINE BURGUNDY (for invalids)
S.V.R. *and Methylated Spirit at lowest present prices.*

CALE ST. DISTILLERY

*All at Lowest Prices and specially recommended.*

CHELSEA

Works: HOECHST O M.

Fischer & Schmitt's

"STAR" ANCHOR & "CAMERA-STAR"
GELATINES
ALWAYS UNIFORM STANDARD QUALITIES
WHOLESALE TRADE ONLY SUPPLIED.

SOLE AGENTS:
Joseph Heine & Co.
103 & 104 Fenchurch St.
[1] LONDON, E.C.

J. ROBBINS & Co. 147 OXFORD ST.

METHYLENE.
*Obtained by the action of Metallic Zinc on Chloroform and Alcohol.*
Discovered to be a general Anæsthetic by Sir BENJAMIN W. RICHARDSON in 1867.
1-lb. Stoppered Bottle, 12s.; ½-lb., 6s. 6d.; 4-oz., 3s. 6d.; 2-oz., 2s.

COMPOUND ANÆSTHETIC ETHER,
For producing Local Anæsthesia.
In 4-oz., 10-oz., and 20-oz. Stoppered Bottles, 2s., 4s., and 7s.

OZONIC ETHER,
In 2-oz., 4-oz., 8-oz., and 16-oz. Stoppered Bottles, 2s., 3s. 6d., 7s., and 12s.

PEROXIDE OF HYDROGEN,
First introduced as a Medicine by Sir BENJAMIN W. RICHARDSON.

ETHYLATE OF SODIUM
(Sir BENJAMIN W. RICHARDSON'S Formulæ), for removing Nævi, &c.
In ½-oz. and 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s.

STYPTIC COLLOID,
For promoting the Healing of Wounds by the first intention.
In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 16-oz., 12s.

CHARCOAL CAPSULES,
Containing Pure Vegetable Ivory Charcoal.
In Boxes, 2s. 6d. each.

J. ROBBINS & Co. OXFORD ST. 147

ASTLEY COOPER'S
PURE ENGLISH
GELATINES.

For Confectioners, Manufacturing Chemists and Druggists, Photographers, &c., &c.

THEY ARE CHEAPER THAN FOREIGN, and absolutely free from Sulphur, Acid, and all Chemicals. Samples and prices free from the Sole Manufacturers,

ASTLEY COOPER & CO.
Analytical & Consulting & Manufacturing Chemists, LEEDS.

Dr. O. E. HORN'S
SCIENTIFIC SPECIALITIES FOR
THE HAIR, SCALP AND SKIN.

"EAU HORN," "GERMANIA HAIR TONIC," "ACESMA," "HAIR SOLVENT," "SKIN FOOD," and numerous other preparations are having an extensive sale.

WELL ADVERTISED. GOOD DISCOUNTS.

Send for Price List and attractive Show Cards to the sole manufacturers,

CASSIE & CO., Chemists, 49 Newgate St., LONDON.

HANSON'S
PERFECTION DENTIFRICE,
MOUTH WASH AND GARGLE
(REGISTERED).
FOR THE TEETH, MOUTH, AND THROAT,
Prepared in two sizes, 1s. 6d. and 2s. 6d. per bottle.

ANTISEPTIC TOOTH POWDER AND PASTE.
In Patent Perforated Tins, 6d. each.
" " Glass Bottles, 1s. "
" Pots ... ... 1s. 6d. "

Handsome Show Card, Price List and Terms on receipt of Business Card.

SOLE PROPRIETOR—
OSWALD HANSON, 1 Ward's End, Halifax, Yorkshire.

ESTABLISHED 1833.
HORSES.—LIEUT. JAMES'S BLISTER.

CAUTION.
The annexed Label is at the top of every Pot of the *ORIGINAL* and only *GENUINE BLISTER.*

The Messrs. Barclay & Sons, 95 Farringdon Street, London, and Messrs. Raimes & Co., Edinburgh, are now and have been Agents 57 years.

AGENTS:—Sutton & Co., 10 Bow Churchyard; W. Edwards & Son, 157 Queen Victoria Street; Newbery & Son, 37 Newgate Street; Evans, Lescher & Evans, Bartholomew Close; Burgoyne, Burbidges & Co., 18 Coleman Street; Lynch & Co., 171A Aldersgate Street; Southall Brothers and Barclay, Birmingham; R. Hovenden & Sons, 93 & 95 City Road, Finsbury; Sanger & Son, 150 Oxford Street; Millard & Sons, 40 Charterhouse Square; Corry & Soper, Shad Thames; A. A. Campbell, Leadenhall Street, London; Woolley, Sons & Co., 59 Market Street, Manchester; Apothecaries Company, Virginia St., Glasgow; John Thompson, 58 Hanover Street, Liverpool; Boileau & Co., Bride Street, Dublin; McMaster & Co., 121 & 122 Capel Street, Dublin; T. McMullen & Co. and J. Clarke & Co. (Lim.), Belfast; D. Galbraith, Londonderry; M. C. Delacre Pharmacie Anglais, Bruxelles.

*And by all Chemists, in Pots, 1/6, 2/9, 5/-, 9/-, and 16/-.*

COLONIAL AGENTS:—MELBOURNE and WELLINGTON: Felton, Grimwade & Co.; SYDNEY, BRISBANE, and LAUNCESTON: Elliott Bros. & Co.; DUNEDIN and AUCKLAND: Kempthorne, Prosser & Co.; CALCUTTA: Smith, Stanistreet & Co.

W. H. JAMES, SOLE MANUFACTURER, FARINGDON, BERKS.
*Advertised in "Bell's Life" 54 years. Beware of Spurious Imitations.*

READ AND USE
THE ART OF DISPENSING. Price 3s. 6d.
ALPE'S HANDY BOOK OF MEDICINE STAMP DUTY. Price 2s. 6d.
PROCTOR'S MANUAL OF PHARMACEUTICAL TESTING. Price 2s. 6d.
VETERINARY COUNTER PRACTICE. Price 3s. 6d.
*Published at the Office of THE CHEMIST AND DRUGGIST,*
*42 Cannon Street, E.C.*

OKELL'S ORIGINAL
MONA BOUQUET.
(First introduced by the late JOSEPH OKELL.)
Registered Trade Mark, "DOUGLAS PIER."
The most popular and best-selling Perfume in the market.
Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.
ALSO 3d. SAMPLE BOTTLES.
Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST, 1185 & 1187 CHESTER ROAD, STRETFORD, MANCHESTER.

# TIDMAN'S SEA SALT.
# TIDMAN'S SALICYLIC TOILET SOAP.
# TIDMAN'S GLYCERINE AND CUCUMBER SOAP.
# TIDMAN'S WHITE ROSE & CUCUMBER SOAP.
# TIDMAN'S OATMEAL AND COLD CREAM SOAP.
# TIDMAN'S "VASTO" INSECTICIDE.

APPLY FOR LISTS AND SAMPLES TO

## TIDMAN & SON, LIM., BUSHELL STREET, LONDON, E.

SOLE LONDON AGENTS FOR THE

## PATENT DEADLY FLY TRAP.

£5 orders Carriage Paid in England, Scotland, and Ireland.

NONE GENUINE WITHOUT THE

REGISTERED TRADE MARK.

# TOWER TEA

**HIGHEST AWARD, PARIS, 1889.**

*Analysis by the "LANCET," December 20th, 1890:—*

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."

PRIZE MEDAL, PARIS, 1889.

Where Vacancies exist, Agencies are appointed by

## THE GREAT TOWER STREET TEA CO., LIMITED

**5 JEWRY STREET, LONDON, E.C.**

# 40% PROFIT!

There is no Proprietary that will give you such a good return as "PEPSALIA"—40% on your outlay, and no "cutting," no "underselling."

*A GUARANTEED PROFIT OF 8s. IN THE £.*

## TRY IT—IT WILL PAY YOU.

Send Postcard for Particulars and Form of Agreement to

**G. & G. STERN, 62 Gray's Inn Road, LONDON, W.C.**

19

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S

# HOUSEHOLD SPECIALITIES.

## YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6*d.*, 1*s.*, & 2*s.* each.

## GOODALL'S BAKING POWDER.

The Best in the World. 1*d.* packets; 6*d.*, 1*s.*, 2*s.*, and 5*s.* Tins.

## GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 Eggs. In 1*d.* packets; 6*d.*, 1*s.*, and 5*s.* Tins.

## GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2*d.*, 6*d.*, & 1*s.* each.

## GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6*d.* and 1*s.* each.

## GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6*d.*, 1*s.*, and 2*s.* each.

## GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3*d.* and 6*d.*

## GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6*d.* and 1*s.* Bottles.

## GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1*s.*, 2*s.*, and 5*s.* each.

## GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6*d.*, 1*s.*, and 2*s.*

## GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and Quart Boxes, 3*d.*, 6*d.*, and 1*s.* each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

PATENT MEDICINES AND

# DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

20

BY ROYAL LETTERS PATENT.

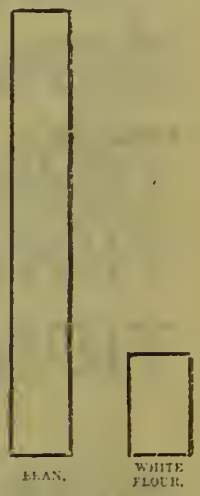
# "CÉREBOS"

*(Not Medicine, but Food).*

The New Table Salt "Cerebos" contains the concentrated Food strength (Phosphates, etc), of bran, which is required to form the actual substance of the Bones, Brain and Nerves, but which is absent from White Bread.

The "Cerebos" Nutritive Table Salt is used instead of the common salt for every purpose; at table, and in salting bread, puddings, soups, stews, etc. In this way all the valuable constituents of the grain are restored for the use of the system.

Now the use of "Cerebos" Salt in the food, instead of the common salt, "will generally obviate the necessity for giving chemical food, as it contains the most important constituents of it, and it is obviously a much more natural and rational way of supplying the deficiency of the necessary substance, than allowing the health to suffer through the gradual deprivation of them, and then supplying them by dosing with chemical food."—*See Medical Reports.*




The above show the proportion of Phosphates in Bran and White Flour. White Bread Salted with "Cerebos," instead of common salt, equals Wholemeal Bread.

Prices: 1d., 6d., and 1s.

*Full Particulars and Samples Free. (Correspondence invited).*

**The CEREBOS Salt Co., Ltd., Picton Works, Newcastle-on-Tyne.**

# MASON & CO.'S, LIM.

## PREPARATIONS.

TRADE MARK

| | |
|---|---|
| Essence of Beef | Meat Juice |
| Essence of Chicken | Malted Food for Infants |
| Essence of Veal | Extract of Malt |
| Essence of Mutton | "O.K." Bouillon |
| Beef Tea Jelly | "O.K." Sauce |
| Concentrated Beef Tea | "O.K." Relish |
| Meat Lozenges | "O.K." Curry Powder |

SEND FOR PRICE LIST.

**417 & 419 KING'S ROAD, CHELSEA, LONDON, S.W.**

# PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

| | Per gross. | Extra quality. |
|---|---|---|
| 1d. Sample Bottles, dozen parcels | 5/3 | 6/3 |
| " " ½-gross boxes | 5/9 | 6/9 |
| 1d. Giant " dozen parcels | 6/6 | 8/6 |
| " " ½-gross boxes | 7/- | 9/- |

| | Per gross. | Extra quality |
|---|---|---|
| ½ Bottles, flat or round, reputed half-pints | 16/- | 28/- |
| ¾ " " " pints | 26/- | 38/- |
| 1 Pint Imperial, round stoppered bottles | 52/- | 62/- |
| 12½-Gallon Casks (*casks free*) each | 20/- | 32/- |

**ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.**

Square Glass Stoppered Bottles, containing nearly ½-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

**MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.**

CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

# CHAMPION'S VINEGAR

COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road, } LONDON.

ESTABLISHED OVER 200 YEARS.

**NEEDS NO GUARANTEE.**

# QUALITY

BRINGS ITS OWN REWARD.

THOSE WHO SELL

## GLENDENNING'S BEEF & MALT WINE

FIND THEIR SALES INCREASE. WHY?

Because! the constituents used are of the very finest quality, and the public are finding it out

*Order through wholesale houses or direct from Sole Proprietors—*

**WM. GLENDENNING & SONS,**

IMPORTERS OF SPECIAL WINES FOR INVALIDS.

9 Grainger Street, NEWCASTLE-ON-TYNE. Established 1867.

## JAMES BOULTON & CO., LIM.

CHEMICAL MANUFACTURERS,

CRAYFORD MILLS, STRATFORD, LONDON.

Manufacturers of the Finest Steam-made

GRANULAR EFFERVESCENT PREPARATIONS.

ACETIC ACID. ACETATE POTASSIUM.

SPIRIT AND VINEGAR COLOURING.

GLYCERINE FRUIT ESSENCES, &c.

Sole Proprietors and Manufacturers of

THE NEW PRESERVATIVE:

**SEMPER-DULCIS OR EVER-SWEET,**

For Milk, Cream, Butter, Sausages, &c., &c.

**FINEST BUTTER-COLOUR (Buttercup Brand)**

SEND FOR QUOTATIONS.

## A REVOLUTION IN TRADE.

**TOBACCO AND CIGARS, "MIXED PARCELS."**

Every Requisite for the Smoker in One Order.

MINIMUM OF TROUBLE. MAXIMUM OF PROFITS.

Every known Manufacturer's Packet Tobaccos and Cigarettes at their List Prices. Foreign Cigars and Tobacconists' Fancy Goods at Importers' Prices. Carriage paid on parcels of £2 upwards to any station in the United Kingdom.

**SINGLETON & COLE, Limited,**

TOBACCONISTS' FACTORS,

TOBACCO, SNUFF, CIGARETTE, & CIGAR MANUFACTURERS AND IMPORTERS,

11, 12, 13, 14, 15, & 16 Cannon Street, BIRMINGHAM

All Dealers in Tobacco, Cigars, Cigarettes, or Tobacconists' Fancy Goods should send P.C. for a copy of our Illustrated Price List. It is simply invaluable as a reference and guide to the Trade, and now beginners gather much useful information from it, thereby gaining experience and saving time and money.

# THE SPECIAL ATTENTION OF CHEMISTS

IS DRAWN TO THE FOLLOWING:—

## LINSEED, LIQUORICE, AND CHLORODYNE COUGH LOZENGES.

## A HANDSOME COUNTER MAHOGANY SHOW CASE

Given to any Chemist buying 1 cwt. of above Lozenges. Price 1/- per lb. net.

---

## GIBSON'S VOCAL LOZENGE

**"TOP NOTE PRODUCERS."**

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affections. Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknown to those who regularly use these valuable Lozenges. **Sold in 1/1½ and 2/9 Boxes.**

---

## CHERRY BLOSSOM LOZENGE,

The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

*With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver-top Screw-stoppered Bottles.*

---

## VOICE AND THROAT LOZENGES,

**FOR SINGERS AND PUBLIC SPEAKERS.**

---

## DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

---

## CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retailed at One Penny each.

---

## Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

**As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.**

Put up in 3-doz., 6-doz., and 1-gross Tins. [1]

---

**Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping House in the Kingdom.**

---

**Price Lists sent on application to**

# ROBERT GIBSON & SONS, CARLTON WORKS, MANCHESTER.

AND

**NO. 1 GLASSHOUSE YARD, ALDERSGATE STREET, LONDON.**

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

# ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

## INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

**NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.**


| | Foot of Page |
|---|---|
| Allen & Hanburys | *Front Cover* |
| Anderson & Co. | 53 |
| Anglo-American Drug Co. (Lim.) | 38 |
| Apollinaris Co. | *Outside Cover* |
| Armour & Co. | 27 |
| Astley Cooper & Co. | 18 |
| Baiss Bros. & Co. | 54 |
| Barclay & Sons (Lim.) | 7 |
| Barratt, R. H. | 52 |
| Battle & Co. | 38 |
| Beedzler, J., & Co. | 50 |
| Belden, E. & W. | 46 |
| Berdoe & Co. | *Coloured Supplement* |
| Bleasdale, William | 48 |
| Blondeau & Co. | 35 |
| Boehm, F. | 16 |
| Boehringer & Soehno | 42 |
| Boissy | *Text* 374 |
| Boord & Son | 17 |
| Boulton, J., & Co. (Lim.) | 21 |
| Bratby & Hinchliffe (Lim.) | 11 |
| Breffits (Lim.) | 51 |
| Brett, F. J. | *Coloured Supplement* |
| British Paper Co. | 4 |
| Browne, T. B. | *Text* 374 |
| Browning & Co. | 8 |
| Buchan, D. D. | 5 |
| Burrough, James | 17 |
| Burroughs, Wellcome & Co. | 32, 33, 34 *Front Cover* |
| Businesses for Disposal | *Col. Supp.* |
| Cadbury Bros. | *Cover* |
| Cerebos Salt | 20 |
| Champion & Co. (Limited) | 21 |
| Chassaing | *Text* 374 |
| Chemists' Association (Lim.) | 45 |
| Chesebrough Manufacturing Co. | 34 |
| Christy, T., & Co. | 53 |
| Cook, E., & Co. | 17 |
| Corsan, J. R. | 6 |
| Critchley, T. | 46 |
| Crocker & Co. | *Coloured Supplement* |
| Darton, F., & Co. | 7 |
| Day, Son & Hewitt | 49 |
| Dee Oil Co. (Lim.) | 50 |
| De St. Dalmas, A. E. | 44 |
| Duncan, Flockhart & Co. | 39 |
| Durrant & Co. | 53 |
| Ellis & Son | *Text* 374 |
| Eschmann Bros. & Walsh | 8 |
| Evans, Lescher & Webb | 47 |
| Evans, Sons & Co. | 47, *Text* 374 |
| Evans and Sons (Lim.) | 47, *Text* 374 |
| Exchange Column | 8 |
| Feaver, J. | 40 |
| Fennings, Alfred | *Outside Cover* |
| Fink, F., & Co. | 53 |
| Fletcher, Fletcher & Stevenson | 53 *Text* 374 |
| Gardner, W. | 46 |
| Geraut, E., & Co. | 12 |
| Gibson, R., & Sons | 22 |
| Gledhill & Co. | 4 |
| Glendenning, W., & Sons | 21 |
| Glover, C. H., & Co. | 16 |
| Goodall, Backhouse & Co. | 20 |
| Great Tower Street Tea Co. (Lim.) | 19 |
| Hanson, O. | 18 |
| Hargreaves, Dr. | 10 |
| Harker, Stagg & Morgan | 40 |
| Harris, J. | 52 |
| Hebbeler, K. | 48 |
| Heine, J., & Co. | 18 |
| Hertz & Collingwood | 12 |
| Hickisson, J | 35 |
| Hildesheimer & Co. | 6 |
| Hirst, Brooke & Hirst (Lim.) | 16 |
| Homocea | 42 |
| Hora & Co. | *Text* 374 |
| Horn, O. F. | 18 |
| Hubbuck, T., & Son (Lim.) | 36 |
| Ingram & Royle | 11 |
| Isaacs, I., & Co. | 52 |
| James, W. H. | 18 |
| Johnson & Johnson | 9 |
| Johnson, Matthey & Co. | 6 |
| Josephs, P. | 8 |
| Kay Bros. (Lim.) | 45 |
| Krohne & Sesemann | 44 |
| Kilhn, B. | 41 |
| Lanoline | 33 |
| Leconte, E. | 40 |
| Leo & Co. | 41 |
| Leslies (Lim.) | 44 |
| Levermore, Aug | 53 |
| Liebig Co. | 25 |
| Lincoln Drug Co. | 42 |
| Liquor Carnis Co. (Lim.) | 43 |
| Liverpool School | 10 |
| Lofthouse & Saltmer | 36 |
| London Homœopathic Hospital | 10 |
| Manchester College | 10 |
| Mason, C. E., & Co. | 4 |
| Mason, G., & Co. | 20 |
| Matthews, H., & Co. | 43 |
| Maw, S., Son & Thompson | *Cover* |
| Mawson Filter Co. | 10 |
| May & Baker (Lim.) | *Cover* |
| May, Roberts & Co. | *Cover* |
| Metropolitan College | 10 |
| Millar, A., & Co. | 16 |
| Mills & Co. | 16 |
| Moss, J., & Co. | *Text* 374 |
| Muhlens, F. | 15 |
| Ness & Co. | 53 |
| Newball & Mason | 12 |
| Newbery, F., & Sons | 45 |
| Nicholls, G. W. | 53 |
| Northern School | 10 |
| Nortons (Lim.) | 42 |
| Oakey & Sons (Lim.) | 44 |
| Oberbrunnen | 11 |
| Odams' Chemical Co. (Lim.) | 49 |
| Oppenheimer, Son & Co. | 28, 29, 30, 31 |
| Orridge & Co. | *Coloured Supplement* |
| Owens College | 10 |
| Phillips, G., & Co. | 17 |
| Pinchin, Johnson & Co. | 43 |
| Poppelreuter, Wm. | 14 |
| Poths, H., & Co. | 52 |
| Potter & Clarke | 13 |
| Price's Candle Co. (Lim.) | 14 |
| Ransom, W., & Son | 17 |
| Richardson, J., & Co. (Leicester), Lim. | 37 |
| Robbins & Co. | 18 |
| Salt Regal Co. (Lim.) | 16 |
| Sanitas, The, Co. (Lim.) | *Text* 374 |
| Shirley Bros. | 45 |
| Singleton & Cole | 21 |
| Sizer Bros. | 4 |
| Slack, W. | 4 |
| Smith, T. & H., & Co. | 36 |
| Sozio & Andrioli | 15 |
| Speller & Co. | 17 |
| Squire & Sons | 34 |
| Stern, G. & G. | 19 |
| Stevens, P. A. | 53 |
| Stevenson & Howell | 3 |
| Stipendum Stopper Co. | 52 |
| Strong, Christy | 5 |
| Sutton, W., & Co. | 53 |
| Taylor Bros. | 6 |
| Thiellay, E. H. | 53 |
| Thornton-Pickard Co. | 53 |
| Tidman & Sons (Lim.) | 19 |
| Todd, A. M. | 14, *Text* 374 |
| Tomlinson, Thomas, & Sons | *Coloured Supplement* |
| Tomlinson & Hayward | 35 |
| Trade Mark Society (Lim.) | *Text* 374 |
| Treble, G., & Son | 8 |
| Tunbridge & Wright | 5 |
| Tyler, Hayward, & Co. | 12 |
| Tyrer, P. | 21 |
| Tyrer, T., & Co. | 39 |
| Vaccine Association | 44 |
| Victoria University | 10 |
| Walker, D. D. | 42 |
| Wandsworth Chemical Works, (Lim.) | 48 |
| Warrick Bros. | *Text* 374 |
| Washington Chemical Co. | 36 |
| Werner & Pfleiderer (Lim.) | 36 |
| West, T. | 18 |
| Willcox, W. H., & Co. | 46 |
| Wood, V. | 44 |
| Wyeth, J., & Bro. | 26 |


# CLASSIFIED LIST OF ALL ADVERTISERS

**Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.**

**ACETIC ACID**
Lorens, H.
Morris & Callard (Salts)

**ACIDS**
Boulton, J., & Co., Lim.

**ADVERTISING SPECIALITIES**
Caspar & Co., Lim.
Corsan, J. R.
Harris, J.
Sears, F. W.

**AERTD & MINRLS**
Apollinaris Co.
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aerated waters Association, Lim.
Ellis & Son (Buthin)
Idris & Co., Lim.
Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourns)
Oberbrunnen
Pickardt & Co.

**BITTO PLANT**
[See SYPHONS and ESSENCES.]
Barnett & Foster
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

**AGNCIES ABROAD**
Australian Drug Co.
Boissy
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.
Psake, Allen & Co.
Prosser, Taylor & Co.
Soul, W. H., & Co.

**ALKALOIDS**
Howards & Sons (Cinchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

**AMMONIA**
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

**APPARATUS**
Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
Johnson, Matthey & Co., Lim.

**BAKING POWDER**
Goodall, Backhouse & Co.

**BANDAGES**
Bailey, W. H., & Son
Robinson & Sons
Schutze, F., & Co.
Wood, Vincent

**BATH & FLESH GLOVES**
Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Pattison, G. | Solport Bros.
Wood, Vincent

**BATH SALTS**
Anderson & Co.

**BICARB. SODA**
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

**BISMUTH PREP.**
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

**BOTTLES**
Aire & Calder Bottle Co., Lim.
Barnett & Foster
Barrett, R. H.
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gilberston, H., & Sons
Hearn, Wright & Co.
Isaacs & Co.
Johnson & Jorgensen
Kilner Bros.
Lofoden Cod Liver Oil Co.
Maw, S., Son & Thompson
Poths, H., & Co.
Rylands, Dan, Lim.
Stipendum Stopper Co., Lim.
Toogood, W. | Youldon, E.

**BOOKS**
Hargreaves, Dr., M.D.
Lewis, H. K.
Squire, P.

**BORAX**
Howards & Sons
Mack's Starch

**BOXES**
Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.
Ford, Shapland & Co.
Kent, G. B., & Sons
Kilner Bros.
Maxime & Co.
Robinson & Sons
Rylands, Dan, Lim.

**BRUSHES**
Etchee, A. & F. E.
Evans, Sons & Co.
Kent, G. B., & Sons

**BUNSEN BURNRS**
Berend & Co.

**BUTTER COLR, &c.**
Boulton, J., & Co., Lim.
Crawshaw & Co.
Tomlinson & Hayward

**CACHOUS**
Bleasdale & Co.
Blyton, Astley & Co.
Jackson, T. | Haines & Co.
Warrick Bros.

**CAPSULES**
Denoual, J. (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Maw, S., Son & Thompson
Parke, Davis & Co.
Richardson, John, & Co. (Leicester), Lim.
Stearns, F., & Co.
Warrick Bros.
Wyleys, Lim.

**CALENDARS**
Hildesheimer, S., & Co., Lim.
Speller & Co.
Townsend, J.

**CAMPHOR**
Howards & Sons
May & Baker, Lim.

**CARBOLIC ACID**
Mason, C. E., & Co.
Wandsworth Chemical Works, Lim.

**CASCARA SAGRADA**
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferrie & Co.
Harker, Stagg & Morgan
Moss, J., & Co.
Parke, Davis & Co.
Squire & Sons
Stearns, F., & Co.

**CERESINE WAX**
Boehm, Fredk.
Pfleier, F.

**CHALK, PRECIP.**
Levermore, Aug., & Co.
Morrison, R., & Co.
Nicholls, G. W

**CHEMICALS**
Berger, Kahler & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohns
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Burton, W., & Sons
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hill, A. S., & Son [Clark
Hodgkinsons, Treacher &
Howards & Sons (Pharm.)
Lofthouse & Saltmer
Lorens, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Morris & Callard | Moss & Co
Smith, T. & H., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

**CHECK TILLS**
Gledhill, G. H., & Co.
O'Brien, Thos.
Stokes, G. B., & Co., Lim.
Voucher Check Till Co., Lim.

**CHEST PROTOTRS**
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Pattison, G.
Schutze & Co. | Solport Bros.
Wood, Vincent

**CHLORIDE GOLD**
Johnson, Matthey & Co.

**CHLOR. OF LIME**
Government Sanitary Co.
Hebden, W. C.
National Chemical Co.

**CHLORODYNE**
Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son

**CHLOROFORM,**
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

**COCA & CHOCOLTE**
Cadbury Bros. | Christy & Co.

**COCAINE-HYDRC.**
Howards & Sons

**COD-LIVER OIL**
Allen & Hanburys
Bleasdale & Co.
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Oppenheimer, Sons & Co., Lim.
Richardson, J., & Co., Lim.
Smith, T. & H., & Co
Spratt's Patent (Dog Cakes)
Stearns, F., & Co.
Woolley, Sons & Co.
Wright, Layman & Umney

**COCA WINE**
Armbrecht, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.
Stephen Smith & Co. (Hall's)

**COLAPSIBLE TUBES**
Betts & Co.

**COMP. MEDICINES**
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard & Co.
Parke, Davis & Co.
Richardson, J., & Co., Lim.
Stearns, F., & Co.

**CONCENT. LIQRS.**
Bains Bros., & Co.
Cooper & Co.
Fletcher, Fletcher & Stevenson
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.

**CORN CURES**
Gardner, C.

**COTTON WOOL**
Haynes, G., & Co. (Absorbent)
Lindner & Co.
Robinson & Sons (Absorbent)
Sanger, J., & Sons

**CRSHD LINSEED**
Mumford, G. S.
Siser Bros.

**DENTIFRICES, &c.**
Beecham, T.
Bronnley, H., & Co.
Henson, O.
Jewsbury & Brown
Lakeman, J. J.
Robertshaw, H. A., & Co
Stevens, P. A.
Sutton, O., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)

**DISINFECTANTS**
Barclay & Sons, Lim.
Beedzler & Co.
Brooks, T.
Drysoale, J. W., & Co.
Dussek Bros. & Co.
Elephant Disinfectant Co.
Fletcher Bros. & Co.
Government Sanitary Co.
Hebden, W. C.
Isal
Jeyes' Sanitary Compounds Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Odams' Chemical Co., Lim.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co.
Wandsworth Chemical Works, Lim.

**DOG MEDICINES**
Spratt's Patent, Lim.

**DRUGGISTS' SUN.**
Ayrton & Saunders
Barclay & Sons, Lim.
Belden, E. & W.
Chemists' Association, Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savers)
Feaver, J.
Fordham, W. B., & Sons, Lim.
Hockin, Wilson & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Quelch, H. C.
Salt Regal Co., Lim.
Sanger & Sons | Sonntag & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Wood, Vincent

**DRUGS**
Allen, S., & Sons (Grinders)
Graf, P. | Hopf, R.
Morrison, R., & Co.
Richardson, J., & Co., Lim. (Grinders)
Wegman, T. & W.

**DRYSALTERIES**
Browning, J. H., & Co.

**DYES, &c.**
Crawshaw & Co.

**EAU DE COLOGNE**
Farina, J. M. | Muhlens, F.
Hockin, Wilson & Co.

**EMBROCATION**
Day & Sons
Elliman, Sons & Co.

**ENEMAS**
Barclays, Lim.
Evans, Sons & Co.
Putney, J., & Sons
Sanger & Son
Wood, Vincent

**ENGRAVERS**
Caspar & Co., Lim.
Corsan, J. R.

**ESSENCES**
Boulton, J., & Co. (Lim.)
Brethy & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hodgkinsons, Prestons & King
Idris & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

**ESSENTIAL OILS**
Allen, S., & Sons
Boehm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott
Drysdale, J. W., & Co.
Evans, Sons & Co. [Clarke
Hodgkinsons, Prestons &
Jakron, John, & Co.
Lambert, S., & Co.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Rylands, Dan, Lim.
Sosio & Andriotti
Spurway & Co.
Stevenson & Howell
Symes & Co.
Todd, A. M.
Treatt, R. C.
Warrick Bros
Widenmann, Broicher & Co.
Wright, Layman & Umney

**ETHER**
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

**ETHYL CHLORIDE**
Kuhn, B.

**EUCALYPTUS**
Laughland, Mackay & Baker

**EXALGINE**
Kuhn, B.

**EXTRACT MEAT**
Armour & Co.
Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

**EXTRCTS, FLUID**
Allen & Hanburys
Allen, G., & Co.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Mess & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Stearne, P., & Co.
Wright, Layman & Umney

**EXTRACTS, SOLID**
Allen, G., & Co.
Ransom, W., & Son
Stearns, F., & Co.

**FEEDG BOTTLES**
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kilner Bros.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Shirley Bros.
Surrey Packing Co.
Youldon, E.

**FILTERS**
Fordham, W. B., & Sons, Lim.
Mawson Filter Co.

**FLY PAPERS**
Buchan, D.
Ford, Shapland & Co.
Marshall, E.
Mather, W., Lim.
May, Roberts & Co.
Silverlock, H.
Slack, W., Exors.
Strong, Christy
Tidman & Sons
Tunbridge & Wright

**FOOD (Infants' & Invalid's)**
Allen & Hanburys
Benger's Food
Bovril, Lim.
Brand & Co.
Cerebos Salt Co., Lim.
Caibnall, H. B.
Evans, Sons & Co.
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liebig Co. | Lorimer & Co.
Mason, G., & Co., Lim
Mellin's Food | Nestlé, H.
Ridge, Dr. | Tyrer, P.
Squire's Chemical Food
Viking Food Co.
Wyeth, J., & Bro.

**FORMULÆ**
Brooks, T.

**FULLERS' EARTH**
Fullers Mining Co., Lim.

**GELATINES**
Astley Cooper & Co.
Hochm, F.

**GINGER ALE**
Brathy & Hinchliffe, Lim.
Chemists' Aerated & Mineral Water Association, Lim.
Ellis & Son
Mills, R. M., & Co.
Ross & Sons (Lim.)

**GLYCERINE**
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.

**GOUT & RHEUMATIC CURE**
Bromley, C.

**GRANULAR PREP.**
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Tyrer, T., & Co.
Wright, Layman & Umney

**GUM**
Fink & Co. (Arabic, &c.)

**HAIR PREP.**
Bates, F. W.
Cassie & Co.
Obesebrough Co.
Edwards & Co.
Truefitt, H. P., Lim.

**HERB BEER EXTS**
Newball & Mason
Potter & Clarke
Southall Bros. & Barclay

**HOMŒOPATHIC**
Epps, James, & Co., Lim.
Keene & Ashwell
Leath & Ross
Watson & Wates

**HYPOPHOSPHITES**
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.

**INHALERS**
Burroughs, Wellcome & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Putney, J., & Sons
Toogood, W.

**INK**
Bewley & Draper, Lim.

**INSECTICIDES**
Barclay & Sons, Lim.
Hebbeler, K.
Hockin, Wilson & Co.
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell

**IRON, REDUCED**
Berger, Kahler & Co.

**KETCHUP**
Tyrer, P.

**KOLA**
Christy & Co.
Moss, John, & Co.

**LARD**
Ewen, J., & Sons

**LEMON SQUASH**
Kemp & Son

**LIME JUICE**
Evans, Sons & Co.
Lorimer & Co.

**LINT**
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Lindner & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

**LIQUORICE**
Denuis Di Luggo & Co.

**LIQUORS**
Cooper & Co.
Fletcher, Fletcher & Stevenson
Hodgkinson, Prestons & King
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.
Stearns, F., & Co.

**LOZENGES**
Allen & Hanburys
Blyton, Astley & Co.
Gibson, R., & Sons (Manfrs.)
Gnest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Warrick Bros.

**MACHINERY**
Bennett, Sons & Shears (Lim.)
Burroughs, Wellcome & Co.
Carter, T. H.
Gardner, W.
Hockin, Wilson & Co.
Martin Perls & Co.
Pindar, J. W.
Werner & Pfleiderer (Kneading and Sifting)

**MALT EXTRCT, &c.**
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co. (Kepler's)
Glendenning, W., & Sons (Wine)
Hearon, Squire & Francis
Leconte, Eugene
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Parke, Davis & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Co.

**MAGNESIA**
Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lloyd, T. Howard, & Co.
Lorimer & Co.
Washington Chemical Co.

**MARKING INKS**
Bond (Daughter of the late John) (Ink and Pencils).

**MEDICINE CHSTS**
Burroughs, Wellcome & Co.
Day, Sons & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.

**MENTHOL**
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

**MERCURIALS**
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

**METH. SPIRTS, &c.**
Boord & Son | Burroughs, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.

**METHYLENE**
Robbins, J., & Co.

**MICROSCOPES**
Darton, P., & Co.

**MILK**
Nestlé, H. (Condensed)

**MORPHIA**
Macfarlan, J. F., & Co.
Smith, Beetle, & Co.
Smith, T. & H., & Co.

**NITRATE SILVER**
Johnson, Matthey & Co., Lim.

**OILS, PAINTS, VARNISHES, &c.**
Browning, J. H., & Co.
Fox, W., & Sons
Matthews, H., & Co.
Pinchin, Johnson & Co.
Wandsworth Chemical Works, Lim.

**OINTMNT BASES**
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim.

**OPIUM**
Hopf, R.

**OPTICIANS**
Botwright & Grey
Darton, P., & Co.

**OTTO OF ROSE**
Warrick Bros.

**OXIDE OF ZINC**
Hubbuck, T., & Son, Lim.

**PAPAIN**
Kuhn, B.

**PAT. MEDCNS, &c.**
Anglo-American Drug Co. (Lim.) (Preserv.)
Atkinson & Barker (Infant
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Mackenzie, Dr. (Catarrh Cure)
May, Roberts & Co.
Newbery, F., & Sons
Roberts & Co (Foreign)
Sutton, W., & Co.
Warner, H. H., & Co., Lim.
Wilson, A. (Bunter's Nervine)

**PEPPERMINT OIL**
Bush, W. J., & Co.
Ransom, W., & Son
Stevenson & Howell

**PEPSIN, &c.**
Armour & Co.
Burroughs, Wellcome & Co.
Obassaing & Co.
Fletcher, Fletcher & Stevenson
Newbery, F., & Sons (Inginvin)
Parke, Davis & Co.
Stearns, F., & Co.
Stern, G. & G.
Warner & Co. (Inginvin)

**PEROX. OF HYDR**
May & Baker, Lim.
Robbins & Co.
Tyrer, T., & Co

**PETROLEUM**
Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
Snowdon, Sons & Co.
Wandsworth Chemical Works, Lim.

**PERFUMERY, FANCY SOAPS**
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Blyton, Astley & Co.
Brooks, T. (solid)
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Bush, W. & J., & Co.
Obemiste' Association, Lim.
Chesebrough Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M. | Greensill & Son
Hovenden & Sons
Lanoline | Mulhens, F.
Newbery, F., & Sons (Bardoss
Pears', A & F., Lim.
Potter & Clarke
Price's Patent Candle Co.
Sosio & Andriotti
Stearns, F., & Co.
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder)
Wright Layman & Umney

**PHARM. PREPS.**
Allen & Hanburys
Armour & Co.
Bains Bros.
Barron, Harveys & Co.
Bieber, J. D. | Boehm, Fredk.
Boehringer, C. F., & Sohns
Boulton, J., & Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles, Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Jeyes' Sanitary Compounds Co.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co
Potter & Clarke
Richardson, John, & Co. (Leicester), Lim.
Roberts & Co.
Smith, T. & H., & Co.
Squire & Sons
Sutton, W. & Co.
Symes & Co. | Tyrer, T., & Co.
Warner, H. H., & Co., Lim.
White, Alfred, & Sons
Woolley, Sons & Co.
Wyeth, Jno., & Bro.
Zimmermann, A. & M

**PHOTOGRAPHIC**
Barclay & Sons, Lim.
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Christy, T., & Co.
Darton, F., & Co.
Fordham, W. B., & Sons, Lim.
Houghton, G., & Son
Howards & Sons (Chemicals)
Johnson, Matthey & Co., Lim.
Kent, G. B., & Sons
Thornton-Pickard Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Zimmerman & Co.

**PILL MACHINES**
Pindar, J. W.
Toogood, W. (Coster)
Werner & Pfleiderer

**PILLS (Coated, &c.)**
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Bromley, C. (Gout & Rheu.)
Carter's Little Liver Pills
Cox, Arthur H., & Co. (tastless)
Dr. Williams Medicine Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son
Holloway's
Jolly's "Duchess" Pills
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Walker, D. P.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyeth J., & Bro.
Wyleys, Lim.

**PLASTERS**
De St. Dalmas, A.
Evans, Sons & Co.
Johnson & Johnson, Lim
Leslies, Lim | Mather, W., Lim.
Seabury & Johnson

**PODOPHYLIN**
Richardson, W. A.

**POLISHING**
Bradley & Bourdas (Albetum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
Lubasynski, H. & A.

**PORCELAIN GDS**
Toogood (E.O. Pots, regist.)

**POULTRY FOOD**
Spratt's Patent, Lim.

**PRICE LISTS**
Chemists' Association
Edwards & Son
Evans, Sons & Co.
Newbery, F., & Sons
Sanger & Sont (Photographic

**PRINTING**
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Silverlook, H.
Taylor Bros. | Townsend, J.

**QUININE SALTS**
Boehringer, C. F., & Sons
Hockin, Wilson & Co. (Wine)
Howards & Sons
Smith, S., & Co. (Wine)
Zimmermann, A. & M.

**RENNET**
Duncan, Flockhart & Co.
Tomlinson & Hayward

**RUBBER GOODS**
Maw, S., Son & Thompson
Victoria Rubber Co.
Wood, Vincent

**SACCHARIN**
Allen & Hanburys
Burroughs, Wellcome & Co.

**SALICIN**
Macfarlan & Co.
Smith, T. & H., & Co.

**SALICYLATES**
Knoll & Co.

**SALICYLIC ACID**
Burgoyne, Burbidges & Co.
Kuhn, B.
Zimmermann, A. & M.

**SALOL**
Kuhn, B.

**SARSAPARILLA**
Wilkinson's

**SAUCES, PICKLES**
Goodall, Backhouse & Co.
Mason, G., & Co., Lim.
Tyrer, P.

**SCHOOLS, &c.**
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Liverpool School of Pharmacy
London Homœopathic and Medical School
Manchester Col. of Pharmacy
Metropolitan Coll. of Pharmcy
Northern School of Pharmacy
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
The School of Pharmacy
Westminster College

**SCIENTIFIC INSTRUMENTS**
Darton & Co.

**SEEDS**
Potter & Clarks

**SEIDLITZ PWDRS**
Blyton, Astley & Co.
Hockin, Wilson & Co.
Hora & Co.
May, Roberts & Co.

**SELTZOGENES**
Bratby & Hinchliffs, Lim.
Evans, Sons & Co.
Gerard, E., & Co.
Hockin, Wilson & Co.
May, Roberts & Co.

**SHAVING**
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)
Truefitt, H. P., Lim.

**SHEEP DIP**
Fletcher, Bros. & Co.
Jeyes' Sanitary Compounds Co.
Nese & Co.
Odams' Chemical Co., Lim.
Tomlinson & Hayward [Lim.
Wandsworth Chemical Works, Lim.

**SHOP FITTERS**
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co. Howlett, S.
Josephs, P. | Natali & Co.
Treble, G., & Son

**SOAP**
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie. (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Jeyes' Sanitary Compounds Co
Lorimer & Co.
Muhlens, F.
Peare, A. & F., Lim.
Tidman & Son
Wright, Layman & Umney

**SODIUM PRXIDE.**
Burton, W., & Sons

**SPECTACLES**
Botwright & Grey
Darton, F., & Co.

**SPONGES**
Creesewell Bros. & Schmitz
Evans, Sons & Co.
Petersen, M., & Co.

**STAMPS (RUBBER)**
Hickisson, J.

**STARCH**
Chancellor & Co. (Mack's)
Critchley (Gloss) | Double

**STOPPERS**
Austin & Co. (Sprinklers)
Barnett & Foster | Malin, C.
Orchard, E. (Poison)
Stipendum Stopper Co., Lim.

**STOVES**
Clark, S., & Co., Lim.

**SUGAR**
Blyton, Astley & Co.
Fletcher, Fletcher & Stevenson

**SUGAR OF MILK**
Boehm, Fredk.

**SULFONAL**
Burroughs, Wellcome & Co
May & Baker, Lim.

**SURGICAL**
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burbidges & Co.
Cooking, J. T.
Eschmann Bros. & Walsh
Harris, J.
Haywood, J. H.
Krohne & Sesemann
Lindner & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Mather, W. Lim.
Maw, S., Son & Thompson
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co. Lim.
Robinson & Sons
Schutze, F., & Co.
Statham, H., & Co.
Victoria Rubber Co.
Wood, Vincent

**SYPHONS**
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aerated & Mineral Waters Association, Lim.
Fordham, W. B., & Sons, Lim.
Idris & Co., Lim.
Kilner Bros. | Malin, C.
Rylands, Dan, Lim.

**SYRUPS**
Blyton, Astley & Co.
Cooper & Co.
Fletcher, Fletcher & Stevenson
Idris & Co., Lim. [(Liquors
Stevenson & Howell

**TABLETS**
Blyton, Astley & Co. (Sulphur)
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim. (Compressed)

**TEA**
Burroughs, Wellcome & Co. (Tabloids)
Gt. Tower St. Tea Co.
Horniman, W. H. & F. J. & Co.,
Pearce & Meeking [Lim

**TEETHING PADS**
Marriott, E., & Co.

**THERMOMETERS**
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.

**TINCTURES**
Bieber, J. D.
Evans, Sons & Co.
Hewlett, C. J., & Son
Hodgkinson, Prestons & King
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Parke, Davis & Co.
Wyleys, Lim.

**TOBACCO & CIGRS**
Singleton & Cole (Lim.)

**TOILET**
Aspinall, E.
Allen & Hanburys (Chrisma)
Bates, F. W.
British Paper Co.
Burroughs, Wellcome & Co. (Lanoline)
Dee Oil Co., Lim.
Hockin, Wilson & Co.
Hovenden & Sons
Maw, S., Son & Thompson
Quelch, H. C.
Truefitt, H. P., Lim.

**TOOTH PASTE**
Beecham, T.
Jewsbury & Brown
Maw, S., Son & Thompson
Sutton, O., & Co. (Bloss)
Truefitt, H. P., Lim.
Wilson, A. (Bunter's)
Woode, M. (Areca)

**TRADE MARKS**
Browne, T. B.
Trade Mark Society, Lim.

**TRUSSES**
Bailey, W. H., & Son
Evans, Sons & Co.
Haywood, J. H. | Wood, V.

**URETHANE**
Howards & Sons
Vaccine Association (Lymph)

**VACCINATION**
Rebman, F. J.
Vaccine Association (Lymph)

**VALUERS & TRNSFR AGNTS**
Berdoe & Co. | Brett, F. J
Crocker, G. B., & Co.
Orridge & Co.
Tomlinson, Thos., & Son

**VASELINE**
Chesebrough Co.

**VERMIN KILLER**
Hebbeler, K.

**VETERINARY**
Bird & Storey | Day & Son
Day, Son & Hewitt
Ellman, Sons & Co.
James, W. H. (Blisters)
Jeyes' Sanitary Compounds Co
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Spratt's (Dogs)
Walker, Troke & Co.

**VINEGAR**
Champion & Co., Lim
Pott, E. & N.

**VINOLIA (Superf'tt'd)**
Blondeau & Cie.

**WEED KILLERS**
Acme Chemical Co., Lim.
Tomlinson & Hayward

**WHOLSL & EXPRT DRUGGISTS**
Allen & Hanburys
Allen, S., & Sons | Baiss Bros.
Barron, Harveys & Co.
Bieber, J. D.
Boyce Bros.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Fassett & Johnson
Ferris & Co.
Fox, W., & Sons | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Hodgkinsons, Treacher & Kemp, Wm., & Son [Clarke
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Potter & Clarke
Prosser, Taylor & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, J., & Co., Lim
Symes & Co.
Walkers, Troke & Co.
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

**WINES, SPIRITS**
Armbrecht, Nelson & Co. (Cosa
Burrough, J.
Coleman & Co., Lim.
Durrant & Co.
French Hygienic Soey. (Coca)
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hirst, Brooke & Hirst, Lim.
Millar, A., & Co. (Orange)
Robinson, B.
Smith, S., & Co. (Orange)

# LIEBIG "COMPANY'S" EXTRACT OF BEEF.

The Company's NEW COOKERY BOOK sent free on application to Street & Co., 30, Cornhill, London, E.C.

# RETAIL CHEMISTS

Cannot gain the confidence of their customers by serving them with a ready prepared and labelled parcel (like a patent medicine) in filling the prescription of a Physician. Injury is done to the Physician, as well as to the reputation and pocket of the Chemist who takes such action. The Chemist should supply the most accurately prepared, beautifully finished products, from the purest materials, in the form that receives the endorsement of the Physician. The successful Manufacturing Pharmaceutical Chemist, with a large output, can secure the best chemical ability, the best and purest materials, and will be able to supply standard Pharmaceutical Preparations, accurate in dosage, elegant in appearance, beautiful in finish, at less cost to the Retail Chemist than in his smaller way he could produce them himself. Messrs. JOHN WYETH & BROTHER, Manufacturing Pharmaceutical Chemists, Philadelphia, U.S.A., and 30 Snow Hill, London, E.C., have for nearly a half-century studied closely the needs and wants of the Medical Profession and of Retail Chemists. The Pharmaceutical Products of this house are noted for their

# PURITY, ACTIVITY, AND BEAUTY.

They are sold in such sized parcels, and at such prices, as enable the Retail Chemist to answer a prescription and make a prescription profit. Messrs. JOHN WYETH & BROTHER were the Pioneer Manufacturers in Pharmaceutical Chemistry, and they present the results of experience, intelligence, the most complete appliances, and a superintendence of the highest commercial integrity, in their list of elegant Pharmaceutical Preparations, among which especial attention is called to the following :—

Compressed Pills (or Powders), plain and sugar-coated ; Soluble Compressed Hypodermic Discs ; Compressed Ophthalmic Discs (John Wyeth & Brother were the first to manufacture these compressed drugs, they are the largest manufacturers of compressed drugs, and they supply any formula desired, in quantities for prescription purposes) ; Wyeth's Beef Juice, Wyeth's Wine of Tar, Wyeth's Glycerole Chloride of Iron, Wyeth's Elixir Digestive Ferments, Wyeth's Dialysed Iron, Wyeth's Digestive Ferments (Pepsin, Pancreatin, Amylopsin, &c.)—all of which are favourably known to the Medical Profession, and are valuable adjuncts to the successful Chemist's stock-in-trade.

Buyers of the products of JOHN WYETH & BROTHER should see that the full name of the firm and the Philadelphia address, and the name and address of the resident representative, WILLIAM F. HORTON, 30 Snow Hill, London, E.C., are upon every label. Price-lists, samples, and literature on application to the London office.

July 28, 1894.

# Armour's

STANDARD

# PEPSIN

Insoluble Powder, Soluble Powder, Granules or Scales, in original bottles, containing 1 oz., 4 oz., 8 oz., or in 1-lb. tins, is absolutely guaranteed 3,000 test U.S.P. 1890,

or,

5 times B.P. strength.

NOTE. Attention is asked to the fact that a Pepsin answering the B.P. test will digest between 500 and 600 grains of egg albumen by the U.S.P. (6 hours) test. The claim made for some brands that they exceed B.P. strength by multiples of 10 is therefore evidently erroneous and misleading.

Chemists are asked to test "ARMOUR'S" against other makes, and samples will be gladly sent for that purpose.

## Armour's Glycerole Pepsin.

A permanent Glycerine solution of great convenience and economy for dispensing purposes.

10m. = 1 grain of Armour's = 5 grains Pepsin B.P.

In 1-lb. bottles, W. quarts, and 8-lb. jugs.

## Advertising Matter

Of an attractive nature supplied on request, including showcards and leaflets bearing Chemist's name and address.

## Special Note Cases

For Medical Men supplied free.

ARMOUR & CO., 59 Tooley St., LONDON, S.E.

# Rome, MDCCCXCIV.
# International Congress of Medicine.
# Gold Medal.

Our range of Manufactures comprise :—

**PALATINOIDS.**
By Royal Letters Patent and Registered.

Palatinoid Closed.

Palatinoid Open.

**BI-PALATINOIDS.**
By Royal Letters Patent and Registered.

**CREAM OF MALT,** Plain.
" " with Cascara Sagrada.
" " " Chemical Food.
" " " Cod-liver Oil.
" " " Hypophosphites.
" " " Cod-liver Oil and Hypophosphites.

(Please observe in ordering Cream of Malt Preparations that the above is the manner in which we have same listed, and all orders reaching us from Chemists for *Cream of Malt* will be considered to mean *plain.*)

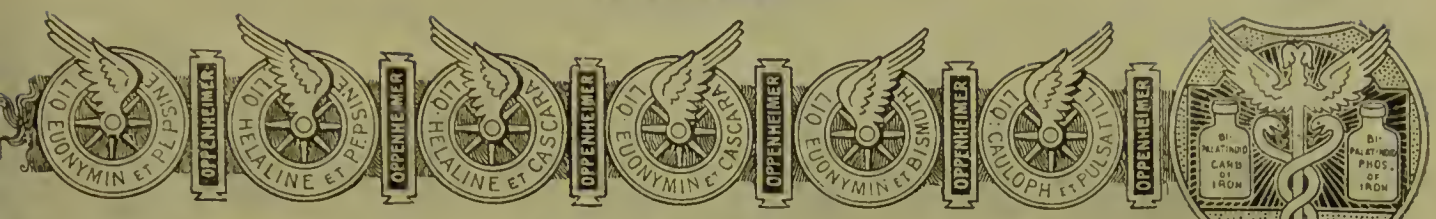
**CONCENTRATED LIQUORS,** the Original and most reliable.
**EUONYMIN COCOA.**
**PEPSINUM-OPPENHEIMER,** Granular, Powder, and Palatinoids.
**GLYCEROLE PEPSINUM-OPPENHEIMER.**
**PANCREATIN-OPPENHEIMER.**
**ERGOLE** (Registered).
**PTUOLE** (Registered).
**SOLUBLE HYPODERMICS.**
**IMPROVED HYPODERMIC SYRINGE** (Patented).
**THE GLOBE NEBULIZER** (Patented).
**NEBULIZING SOLUTIONS.**
**POWD. THYROIDS** (8 grs. represents 1 fresh gland).
**RENNIN,** Granular.
**TRAVELLERS', TOURISTS', & PHYSICIANS' EMERGENCY CASES.**

# OPPENHEIMER, SON & CO., LTD., LONDON.

General Offices and Warehouse:—14 Worship Street, E.C.

*Inland Telegraphic Address—"BI-PALATINOID LONDON."*
*Cable Address, A.B.C. Code—"OPERATOR LONDON"*

# QUALITY. ORIGINALITY.




## Rome, MDCCCXCIV.
## International Congress of Medicine.
## Gold Medal.

# MPROVED MEDICINAL PREPARATIONS OF ASCARA SAGRADA.

much as we are now particularly drawing the attention of the Medical ession to preparations of the bark of *Rhamnus Purshiana*, we venture to est that the large demand upon the stock of the Chemist which is likely to by reason of our action will necessarily call for supplies of our manufacture. herefore beg to call the attention of our friends to the following list of Prepa- ns, and suggest that Chemists will serve their own interests by specifying "Oppenheimer" on their orders through the wholesale houses.

## "PALATINOIDS"

*(BY ROYAL LETTERS PATENT).*

Palatinoid

Opened.

| | Per Tube. | Per doz. Tubes. | Per Gross. |
|---|---|---|---|
| scara Ext. Pulv. gr. 1 ... ... | 1/- | 8/6 | 2/6 |
| " " " gr. 2 ... ... | 1/- | 8/6 | 2/9 |
| cara Sagrada Co. ... ... *t. Cascaræ Sag. gr. 1, Aloin gr. ¼.* | 1/- | 8/6 | 2/6 |
| cara, Nux Vomica & Belladonna *t. Casc. Sag. gr. 1½, Ext. Nucis Vom. gr. ⅛, Ext. Bellad gr. ⅛.* | 1/- | 8/6 | 2/6 |
| cara Ext. c. Bismuth Subnit. aa gr. 1 | 1/- | 8/6 | 2/6 |
| " " gr. 1, c. Colocynth gr. ½ | 1/- | 8/6 | 2/6 |
| 28. Cascara Ext. c. Euonymin, aa gr. 1... | 1/- | 8/6 | 2/6 |
| 29. " " c. Hyd. Subchlor. aa gr. 1 | 1/- | 8/6 | 2/6 |
| 30. " " c. Iridin aa gr. 1 ... | 1/- | 8/6 | 2/6 |
| 31. " " c. Pepsin ... ... *Ext. Cascara Sagr. gr. 1, Pepsin B.P. gr. ½.* | 1/- | 8/6 | 3/- |
| 84. Laxative ... ... ... ... *Ext. Casc. Sagr. gr. 1, Euonymin, Podophyllin aa gr. ¼.* | 1/- | 9/6 | 4/- |

atinoid
osed.

## "BI-PALATINOIDS"

*(BY ROYAL LETTERS PATENT).*

| | Per Tube. | Per doz. Tubes. | Per Gross. |
|---|---|---|---|
| rous Carbonate c. Ext. Cascaræ Sagradæ ... ... *ulph. Exsicc. gr. 1, Sodii Carb. Exsicc. gr. ⅝, t. Casc. Sagr. gr. ¼.* | 1/- | 9/6 | 42/- |
| 513. Ferrous Carbonate c. Ext. Casc. Sagr. et Nux Vomica ... *Ferri Sulph. Exsicc. gr. 1, Sodii Carb. Exsicc. gr. ⅝, Ext. Casc. Sagrad. gr. ¼, Ext. Nucis Vom. gr. ⅛.* | 1/- | 9/6 | 42/- |

## ONCENTRATED LIQUORS.

lin et Cascara Sagrada Co. ... 10/6 per lb. net.
*Hepatic stimulant and laxative.*

Liq. Euonymin et Pepsin c. Cascara Co. 10/6 per lb. net.
*Hepatic stimulant, digestive and laxative.*

Liq. Euonymin et Cascara Sagrada Co. ... 10/6 per lb. net.
*Hepatic stimulant and laxative.*

QUALITY. ORIGINALITY.

## Rome, MDCCCXCIV.
## International Congress of Medicine.
## Gold Medal.

# PEPSINS

FOR MANUFACTURING PURPOSES.

We are prepared to submit samples and quotations for Pepsins in Granular, Scale, or Powder forms, and, if preferred, for the economical manufacture of liquid preparations, Concentrated Glycerole, ranging in Digestive Power from the requirements of the British Pharmacopœia to

# 30,000.

This high Digestive Power is attained only by the Webber process, which is employed in the manufacture of our Pepsins, and which process is protected by Royal Letters Patent granted in Great Britain and controlled absolutely by us. The many desirable features present solely in the Oppenheimer Pepsins will commend their use.

**SOLUBLE.** **NON-HYGROSCOPIC.**
**INODOROUS.** **PERMANENT.**

We invite critical Comparative Tests with the Pepsins of other manufacturers.

## CONCENTRATIONS.

TO LARGE BUYERS WE CAN QUOTE TO ADVANTAGE.

**EUONYMIN.** **IRIDIN.**
**LEPTANDRIN.** **ERGOTIN.**
**GELSEMIN (Gelsemperin).** **INULIN.**
**PODOPHYLLIN.**

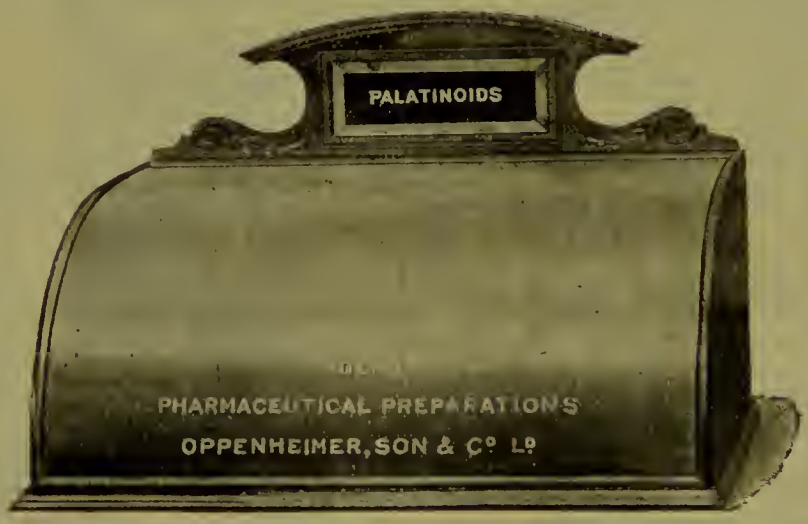
## QUALITY. ORIGINALITY.

# Rome, MDCCCXCIV.
# International Congress of Medicine.
# Gold Medal.

## IMPORTANT.

For the convenience of Chemists who stock our preparations in sufficient quantities to entitle them to become a Depôt, we supply on consignment a handsome mahogany showcase finished in black and gold.

All orders are accepted by us subject to Exchange Clause as follows :—"To accommodate our friends we will exhange all preparations of our manufacture which have not had the cork, capsule, or label removed from the package for others in more frequent demand."




20 in. by 14 in. by 12 in.

The merit of our manufactures is already recognised, as testified by the Award of the only Gold Medal conferred upon any house from English speaking countries for quality and originality at the International Congress of Medicine recently held at Rome. To Chemists becoming a Depôt for our preparations we offer exceptional inducements, and invite correspondence on this or any other subject pertaining to our operations.

**OPPENHEIMER, SON & CO., LTD.**

# QUALITY. ORIGINALITY.

# KEPLER EXTRACT OF MALT

*THE LANCET reports: "The Kepler is the best known, and, in this country, the largest used Extract of Malt. It is as distinct an advance in therapeutics as was the introduction of cod-liver oil. It is one of the best remedies for atonic dyspepsia and is undoubtedly useful in consumption and other wasting diseases."*

*The BRITISH MEDICAL JOURNAL: "We can recommend the Kepler Malt Extract. Being prepared at a very low temperature, its qualities are not deteriorated nor is its flavour spoiled. It is very favourably spoken of by physicians both in respect to its nutritive and digestive properties and as being of very agreeable flavour."*

*The MEDICAL PRESS AND CIRCULAR says: "Very delicious to the taste, and has been found by analysis to be exceedingly rich in diastase."*

*The MEDICAL RECORD reports: "Kepler Extract of Malt is undoubtedly the best, the richest in diastase, and the most largely used. We have witnessed the process of manufacture, have tested it, and are satisfied that it is not only unsurpassed but unequalled. It is the Extract of Malt which every physician prescribes."*

*MEDICAL TIMES AND GAZETTE says: "By far the best. The one most widely known and most largely used in this country."*

*Official text of the Award conferred upon Kepler Extract of Malt at the Chicago Exposition, 1893: "For high starch-converting or diastatic power combined with excellent flavour and odour."*

The many and varied conditions of disease in which the Kepler Extract of Malt as a food is indicated, and the benefits which are to be obtained from its use, sufficiently explain the wide popularity it has attained. It is manufactured from barley, and barley only, and our perfected machinery and long experience have enabled us to obtain a product exhibiting all the nutritive principles of the grain intact. The main advantages of a good Malt Extract are that it is highly nutritious, readily assimilated, and rich in that important factor diastase, which converts starchy food into maltose and other saccharine and easily-digested substances. It is, consequently, an effective aid to digestion, and can be tolerated by the stomach when cod-liver oil alone would be out of the question. Freedom from coarse and irritating elements makes it the safest aliment in inflammatory conditions of disease; it is an admirable

demulcent in irritable states of the throat, and in debilitated conditions generally it is unrivalled as a food and digestive aid.

Kepler Extract of Malt is advantageously administered to children in the later stages of infancy, when they are being partially fed on bread, gruels, and other farinaceous food, as it prevents the occurrence of digestive derangements so common to infant life and increases the nutrient value of the food. It is as delicious as honey, as nutritious as cod-liver oil, and as assimilable as mother's milk.

Supplied to the Trade in ¾-lb. and 1½-lb. bottles at 20/- and 36/- per dozen.

## BURROUGHS, WELLCOME & CO., MANUFACTURING CHEMISTS,

LONDON—Snow Hill Buildings.
NEW YORK—Rhinelander Building, Rose & Duane Streets.
MELBOURNE—456 Collins Street West.
PARIS—Pharmacie Centrale de France.
BRUSSELS—Chas. Delacre & Co.
VIENNA—The Feld Apotheke M. Kris, Provisor), Stefansplatz 8.

Cable and Telegraphic Address—"BURCOME LONDON."

# "LANOLINE"

## Every Chemist

SHOULD USE

## "LANOLINE" AS AN OINTMENT BASE,

AS IT

never turns rancid;

admits of the admixture of any quantity of water;

confers stability and permanence on ointments prepared with it.

---

# UNGUENTUM LANOLINI

## is an Ointment

WHICH CONSISTS OF

"LANOLINE" and 30 per cent. of Soft Paraffin B.P.

---

UNGT. LANOLINI is comparatively inexpensive.

UNGT. LANOLINI is non-sticky.

---

# TOILET "LANOLINE."

## A SUPERIOR PREPARATION FOR THE SKIN.

IN TUBES CONVENIENT FOR USE IN

SUNBURN, CHAFING, CHAPPING, REDNESS, AND WRINKLING OF THE SKIN.

---

"LANOLINE" and its preparations, Soaps, Pomades, &c., can be obtained from

# BURROUGHS, WELLCOME & CO.

SNOW HILL BUILDINGS, LONDON, E.C.

# FURTHER REDUCTION IN PRICES OF "VASELINE."

| | |
|---|---|
| "VASELINE" (Pure). Card Cases. | No. 1 size, 3/0½; No. 2, 6/1; ½-lb. Tins, 7/-; 1-lb. Tins, 12/- per doz. |
| "VASELINE," Blue Seal. | No. 1 size, 21/-, and No. 2 size, 42/- per gross. |
| "VASELINE" Cold Cream. | No. 1 size, 4/9; No. 2, 7/-; No. 3, 12/-; No. 4, 21/- per doz. |
| "VASELINE" Camphor Ice. | Tins or Tubes, 3/0½ per doz. |
| POMADE "VASELINE." | No. 1 size, 3/11, and No. 2 size, 7/10 per doz. |
| "VASELINE" Toilet Soaps. | Unscented, Perfumed, or Tar, 20/6 per gross. |

**CHESEBROUGH MANUFACTURING CO., 42 Holborn Viaduct, LONDON, E.C.**

PROPRIETORS AND SOLE MAKERS OF "VASELINE."

# EMOL (TRADE MARK) KELEET.

A most delightful, emollient and mildly astringent, absorbent Dusting Powder, of soft and silky texture, vastly superior to any drying or dusting powder hitherto known. Speedily dries and soothes in cases of moist, sensitive, inflamed, irritated, or chafed surfaces. Softens and smooths hard and rough skin. A perfect soothing and absorbent powder for toilet purposes, and for prickly heat in hot climates. Efficacious in Eczema and Acne. In cases of eruptions in Scarlet Fever and Measles it relieves irritation.

This powder is a simple, purified, natural product which on analysis is found to be somewhat allied to superior varieties of Fullers' Earth. It contains a considerable percentage of Steatite, Silica, Alumina, and traces of Calcium Salts and Ferrous Oxide. The value of Emol-Keleet in the treatment of skin diseases has already excited great interest in the medical profession. In all cases EMOL-KELEET is perfectly harmless.

EMOL-KELEET, regular size boxes ... ... ... 8/6 per dozen.

**Burroughs, Wellcome & Co., Snow Hill Buildings, E.C.**

## JUST PUBLISHED.

*Sixteenth Edition. Much Enlarged, and Revised up to date. Price 12s. 6d.*

# SQUIRE'S COMPANION

TO THE

# BRITISH PHARMACOPŒIA.

"No man who has the faintest aspiration to be in the van of pharmaceutical progress can afford to ignore the claims this exact and comprehensive epitome of pharmaceutical information has to a place at his elbow."—*Chemist and Druggist*, March 24, 1894.

"As representing the actual condition of pharmaceutical practice in the United Kingdom, the work has, however, long since far out-grown the latest edition of the Pharmacopœia, to which it was originally intended to serve as a companion, and, as containing a store of valuable information, it may now be regarded as in many respects anticipating the next issue of that authority. Few statements as to which any doubt existed have been adopted without careful examination."—*Pharmaceutical Journal*, June 16, 1894.

"It is considerably ahead of the average text-books, and affords a valuable standard of reference to those who are anxious to keep pace with pharmaceutical advances, the allusions relating in many instances to current literature bearing the date of the present year."—*Lancet*, March 24, 1894.

"The present edition has evidently been revised with the greatest care, of which evidences are to be found on almost every page. Altogether, the improvements are so great that many of those who already possess the work will find it worth while to have the new issue."—*Practitioner*, June, 1894.

"The contents extend far beyond the limits of the Pharmacopœia, as a very large number of unofficial drugs and preparations are considered with the same care and minuteness as the others."—*British Medical Journal*, June 16, 1894.

London: J. & A. CHURCHILL, 11 New Burlington Street, W.

# The Chemist & Druggist SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, SEPTEMBER 8, 1894.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

## THE ADVANTAGES

Of advertising in this Supplement should be kept in mind by Transfer Agents and Valuers; by Wholesale Houses and Contract Agencies; by Pharmacists desirous of selling Businesses, or of buying them; by those who want Assistants, or who are seeking Situations. For all such it is the medium which gives the smartest results, and its unique method of circulation has secured for it a surprising popularity. Space for displayed advertisements can be obtained on application to the Publisher, 42 Cannon Street, London, E.C.


# CHEMISTS' TRANSFERS.

## MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

### CHEMISTS' TRANSFER AGENTS,

**May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.**

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—**£1,400.—LONDON, S.W.**—First-class Dispensing and Retail Business, situate in main thoroughfare; returns £1,400 yearly, *good profits*; well-fitted shop and ample stock; good house, on long lease; price to be arranged; must be sold on account of ill-health.

2.—**£700.—LONDON, S.E.**—Good-class Retail and Dispensing Business; returns about £700 yearly, *net profit* £243; convenient house, low rent; price £500; full particulars on application.

3.—**£700.—LONDON, S.**—Ready-money Retail, Dispensing, and Prescribing Business, situate in main road; prominent position; well-fitted shop and good stock; returns about £700 yearly, under management; vendor will accept a very moderate amount.

4.—**£600.—LONDON (Suburban).**—Dispensing and Retail Business, situate in busy increasing locality; returns between £500 and £600 yearly; *profits good*; convenient house, with garden and fruit trees; price about £500; worth attention.

5.—**£625.—LONDON, S.E.**—Retail, Dispensing, and Prescribing Business; old-established concern; *very profitable*; returns between £600 and £625 yearly; well-fitted shop, stock ample; house in good repair, held on lease; about £500, or offer.

6.—**£500.—LONDON, E.** (Death Vacancy).—Ready-money Retail and Prescribing Business, situate in main thoroughfare; returns £500 yearly; well-fitted shop; very moderate terms to an immediate purchaser; good Prescriber wanted.

7.—**£400.—LONDON, W.**—Middle-class Retail and Prescribing Business; returns between £300 and £400 yearly; *gross profits* £200; single-fronted shop, well fitted; large convenient house; low rent; price about £220; worth attention.

8.—**£1,000. SUSSEX.**—Dispensing and Mixed Retail Business; returns £1,000 yearly; *very profitable* business; good house; about £700 required; the business is quite unopposed, and has been held by vendor many years.

9.—**£1,000.—EASTERN COUNTY.**—Dispensing and Retail Business, situate in very good-class locality; returns £1,000 yearly; very handsomely-fitted shop and good business premises; good roomy house; valuation of stock and fixtures only required.

10.—**£1,250.—EASTERN COUNTY.**—Easy distance of town; old-established Business, situate in the centre of market place; returns £1,200 to £1,250, *all good prices*; good-sized shop, convenient house, and large garden, &c.; price between £1,000 and £1,100, or valuation terms can be arranged.

11. **£900.—BERKSHIRE.**—Good-class Family Dispensing and Retail Business; returns between £800 and £900 yearly; *profits larger than usual*; double-fronted shop; modern fittings; convenient house, long lease; price required £950, or offer.

12.—**£500.—SOUTHAMPTON (Near).**—Retail and Prescribing Business; returns nearly £500 yearly, *with very good profits*; shop well-fitted; 6-roomed house and shop; rent £25; price £300; the business can be doubled by a pushing man.

13. **£400.—TORQUAY.**—Light Retail, Prescribing, and Dispensing Business; returns about £400 yearly; *net profit about* £200; well-fitted shop and well stocked; convenient house (private entrance) and garden; rent moderate; price about £340.

14.—**£350.—OXON** (Death Vacancy).—Small Retail and Dispensing Business, with Post Office; returns between £300 and £350 yearly; very nicely-fitted shop and good stock; must be sold; will accept any reasonable offer.

**Particulars of any of the above will be furnished on application.**

**N.B.—NO CHARGE TO PURCHASERS.**

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

**SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.**

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

# F. J. BRETT

Valuer, 60 St. Stephen's Road, LEICESTER.

*References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.*

**BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE. NO CHARGE TO BUYERS.**

Stocktaking Unnecessary.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. Brett is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

Stocks and Fixtures Bought for Cash.

**MIDLANDS.**—Surgeon's Wholesale; returns £750; stock, &c., about £500.—**YORKS.**—£800 returns; fine position; large town; handsomely-fitted shop; very suitable for stores; valuation about £750.—**LONDON, N.**—£650 returns; nice district; Light Family Retail; good house; rent £40; price £425.—**SOMERSET.**—£500 returns; good-class Retail; can be much increased; fully one-half net profit; price £375.

# BERDOE & CO.

**CHEMISTS' TRANSFER AGENTS AND VALUERS,**

**30 JEWRY STREET, ALDGATE, E.C.**

**Established 1870.**

NOTICE TO VENDORS.

Having been for the past 23 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. Vendors placing their businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

## BUSINESSES WANTED.

NO CHARGE TO PURCHASERS.

1.—**KENT (near Town).**—Good-class Retail and Dispensing Business; handsome double-fronted shop; good 10-roomed house; returns over £1,300; price £1,200, or offer.

2.—**MIDLANDS.**—Retail, Dispensing, and Prescribing Business; returns £1,250; net profit £350; valuation about £600; no goodwill.

3.—**LANCASHIRE.**—Good-class Retail, Dispensing, and Prescribing Business; returns £1,000 under manager; good house; price £800.

4.—**SEASIDE.**—Splendid position in rising town; returns £600; full prices; good house and garden; price £600.

5.—**SOUTH COAST.**—Retail and Dispensing Business; returns £700; net profit £300; good house; price £500.

6.—**MIDLANDS.**—Old-established Business, returning £3,000; net profit £600; good house and garden; price £1,750.

7.—**WEST OF ENGLAND.**—Unopposed Retail and Agricultural Business; returns £1,300; net profit £350; rent £30; price £700.

8.—**SOUTHAMPTON (near).**—Retail and Prescribing Business; returns nearly £500; good profits; price £300.

9.—**LONDON, N.**—Retail and Dispensing Business; returns £1,400; net profit £400; good house; price £900.

10.—**WEST-END.**—Good thoroughfare; returns £1,300; low rent; good house; price £800, or valuation.

## VALUATIONS.

**SPECIAL ATTENTION** is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

**Berdoe & Co., 30 Jewry Street, Aldgate, E.C.**

# THOMAS TOMLINSON & SON

**Chemists' Consultants, Transfer Agents, and Valuers,**

**9 NEW CANNON ST., MANCHESTER.**

**Forty-four years' experience, during which period they have transferred, valued, or arbitrated over 1,000 Businesses.**

**BUSINESS WANTED.**—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once, with all despatch, put into communication with *bonâ-fide* buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

Businesses for disposal at Bradford, Stamford, Torquay, Worcester, Derby, Preston (2), Manchester (5), Boston, Pembroke Dock, Cleethorpes, Wakefield, Scarborough, Barnsley, Blackburn, Newton Abbot, Bury, Cheshire, Paddington, York, Croydon, Bradford (Botanical), Oldham, Liverpool (4), Accrington, Horwich, Redditch, Huddersfield, Skipton, Sheffield, Southport, Maidenhead, Essex, Bolsover, Derby, &c.; also a good Dental Practice in Yorkshire.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"Tomtom."

# CROCKER & CO.

Sole Proprietors—Mr. William Judd and Mr. Alfred Manners,

**Trade Valuers, Transfer Agents, and Accountants,**

**15 WALBROOK, E.C.**

**Valuations made for Probate or Transfer, Books Audited and Balance Sheets prepared in any part of the United Kingdom.**

**KENT (in pleasant Market Town).**—An old-established Family trade, returning about £900 yearly; net profits over £300; price £800, or offer; good house, handsome pharmacy, and pleasant situation.

**MIDLANDS.**—Country Retail and Dispensing Business, in pleasant market town in the Severn Valley; returns £1,200; price £1,000.

**SOUTH WALES.**—Good-class Dispensing Business, with Wine and Spirit trade; returns £1,800; price £1,300 or offer.

**LANCASHIRE.**—High-class Retail and Dispensing; returns £1,460; fine, handsome pharmacy and valuable stock.

**SOUTH LONDON SUBURB.**—Family and Dispensing Business; returns £500; price £450.

NO CHARGE TO PURCHASERS.

**Valuations a Specialty. Terms on application.**

## BUSINESSES FOR DISPOSAL.

*3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**FOR** immediate disposal, Retail Business in a good market town in Midlands; stock and fixtures at a valuation. Apply, 191/34, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

**PRESTON.**—Offers wanted for old-established Drug Business; good Doctor's trade attached; would make a successful Drug Store; every convenience, house, stables, and warehouses. Apply, 157 Friargate, Preston.

**DRUG-STORES** (capital district).—Fixtures and all Stock £200; cost £250; rent £30 only; takings £5; this is an excellent opening for young man with energy. Hughes & Fleetwood, Valuers and Estate Agents, 19 Bennett's Hill, Birmingham.

**OLD-ESTABLISHED** Chemist Business for sale, cheap; main thoroughfare; thickly populated neighbourhood; no opposition; a splendid chance for a beginner; satisfactory reasons for disposal. Apply, "Chemist," 108 Mile End Road, South Shields.

**A GOOD** Prescribing and Sundry trade; new premises, main street, Kent; station opposite; must sell; returns £350; will accept £130 cash, only about valuation of stock and fittings. "Benefactor," c/o Office of The Chemist and Druggist, 42 Cannon Street, E.C.

**FOR** early disposal (S.E.), a good Cash Dispensing, Prescribing, and General Retail Business; handsomely fitted, well-stocked, double-fronted shop, situated in good main road, 2 minutes from station; trams pass the door; £400; a bargain. Address, L., c/o Street Brothers, 5 Serle Street, W.C.

**MANCHESTER CITY.**—For immediate disposal, a first-class, well-fitted Pharmacy, in fashionable street in the centre of the city; good prices; large profits; inspection invited; good reasons given for disposing; price about £500; lease. Apply, C. H. G., Elmhurst, Cheetham Hill Road, Manchester.

**LONDON, N.**—Small Business, Retail, Prescribing, and Extractions; very profitable; returns about £290; good reasons for disposal; price £110; worth attention of gentleman with a little capital; wants developing; no agents. Address, Mr. Bellamy, 2 Barrett's Grove, Stoke Newington, N.

**LONDON, S.E.**—Retail and Dispensing Business, situate in fine position; returns £400 yearly; well-fitted shop, and good stock; good house and garden; vendor's sudden breakdown in health obliges him to relinquish; price to be arranged. "Statim," c/o Orridge & Co., 32 Ludgate Hill.

**LONDON, N.**—For disposal, on account of health, a light Retail, Dispensing, and Prescribing Business; shop handsomely fitted and well stocked; returns nearly £1,100; cash price £1,000; first-class position and good neighbourhood. 195/20, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

**YORKSHIRE** (Death vacancy).—Retail, Dispensing, and Prescribing Business; in the same hands 30 years; returns £600, good prices; low rent; corner shop, with house attached; price £300; immediate sale desired by Exors. Address, "Trustee," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

**SHEFFIELD.**—Old-established, profitable Family Retail and Dispensing Business, with good Prescribing trade; a rare opportunity to secure a genuine concern; domestic reasons cause of selling; price £350; returns over £500. Apply, in first instance, to B. Waterhouse, Wholesale Druggist, 30 Sheffield Moor, Sheffield.

**BIRMINGHAM.**—Old-established Chemist and Dentist's Business for disposal; present occupier 25 years; suitable for large business stores; suburbs of Edgbaston; present takings £650, which can be greatly increased; rent £45, lease granted. Address, "Dentist," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

## SITUATIONS WANTED—Cont.

**DISPENSER.** Advertiser (30) wishes for situation until Christmas. B., 34 Albert Road, Tamworth.

**TEMPORARY** Assistant; aged 25; experienced; disengaged. W. T., 29 Congreve Street, Birmingham.

**ASSISTANT**; 29; Extractor and Prescriber; outdoors preferred. W., 136 South Street, Moor, Sheffield.

**TRAVELLER** requires good useful commission; connection. Address, 23 Ashchurch Grove, Shepherd's Bush.

**ASSISTANT**; 23; good-class experience; outdoor preferred; "Domo," 96 Tottenham Court Road.

**ASSISTANT**; 8 years' experience; 25; abstainer; disengaged. "Statim," 51 Windsor Road, Southport.

**ASSISTANT** or Dispenser; 24; qualified; experienced; outdoor preferred. F. Thackrey, Pateley Bridge, Yorks.

**JUNIOR**, as Dispenser; 22; abstainer; London; 5½ years' experience. H. Tuffin, Cheap Street, Sherborne, Dorset.

**JUNIOR**, nearly 21, in Dispensing business; Liverpool or district preferred. H. D., 4 Adamsdown Square, Cardiff.

**TEMPORARY**; disengaged for six weeks; aged 29; qualified. X. Y. Z., 27 Smith Square, Westminster, S.W.

**JUNIOR**, in good-class business; aged 20; height 5 ft. 10 in.; disengaged. J. Welch, 27 High Street, Worcester.

**LOCUM** or Manager; experienced Prescriber, Extractor; reliable; disengaged. "Nemo," 40 Bolton Street, Bury.

**LOCUM**; experienced; qualified; 27; highly recommended; disengaged. "Pre. Sci.," Thorn House, Bethersden, Kent.

**ASSISTANT**: Agricultural and Mixed; good Prescriber; married; aged 33; disengaged. H., 5 North Street, Ilkeston.

**PILL** Maker and Coater; 15 years' practical experience; good references. "Rhei," 152 Broughton Lane, Manchester.

**LOCUM-TENENS**; qualified; long experience; highest references; disengaged. "Chemist," 8 Church Street, Salisbury.

**PART-TIME**; 19 years' good experience; qualified. T., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LOCUM**, Manager, Dispenser (good); qualified, competent, steady, industrious, married. "Nemo," Wyleys, Birmingham.

**JUNIOR**; 20; 5 years' experience; good reference; disengaged October 1st. "Ego," 45 St. Paul's Road, Shipley, Yorks.

**MANAGER**; middle aged; married; good references. Address, W. C., c/o Mr. Hardman, Chemist, Burley Road, Leeds.

**ASSISTANT**; 23; Minor; London and Provincial experience; disengaged; exceptional references. Brackenbury, Bardney.

**LOCUM** or Manager; excellent references; disengaged 17th. Morgan, Heathfield Road Pharmacy, Handsworth, Birmingham.

**LOCUM** or Temporary Manager; aged 40; varied experience; unexceptional references. J. T., 104 Essex Road, Islington, N.

**AS** Chemist's Assistant or Dispenser to Medical Man; in Hastings or neighbourhood; outdoors. Twiss, 150 Queen's Road, Hastings.

**MANAGER** or Assistant; qualified; married; aged 40; thoroughly experienced; disengaged. "Alpha," 37 King Street, Dudley.

**IN** good-class Dispensing business, or to manage Branch; 25; qualified; good references and address. Clarke, The Broadlands, Nantwich.

**ASSISTANT**; 26; South; tall; qualified; West-end experience; two kept preferred; good class business. Thomas, Dorrington, Salop.

**MANAGER** or Assistant; outdoors; qualified; 29; permanency; good experience. "Minor," c/o Mr. Fox, Chemist, Great Malvern.

**PART-TIME**; situation wanted in London; 5 years' experience; good Dispenser; highest references. C. B., 11 North Street, Derby.

**OUTDOORS**; permanent or temporary; good varied experience; 29; Prescriber; Dispenser. "Minor," 42 Gordon Street, Northampton.

**MINOR** aged 25; height 5 ft. 11 in.; good experience; disengaged; Manchester or district preferred. D., 6 St. Stephen Street, Salford.

**ASSISTANT**, aged 26; qualified; height 5 ft. 8 in.; disengaged. 193/12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR**; good-class Dispensing business; London preferred; good references; disengaged. T. F., 60 Elswick Road, Newcastle-on-Tyne.

**AS** Locum or Manager, by a M.P.S.; 30 years' West-end experience. Address, "M.P.S.," 45 Craven Road, Westbourne Terrace, London, W.

**IMPROVER** or Junior; indoors or out; over 4 years' experience; good references; Birmingham or Lincoln preferred. "Cortex," 71 Millgate, Newark.

**LOCUM**, Manager, or Senior; registered; experienced; good references; disengaged. "Dispenser," 37 Horsley Street, Hall Lane, Liverpool.

**AS** Assistant Analyst in works Laboratory; aged 19; small salary. Apply, J. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER** Assistant; 24; 9 years' all-round experience; outdoor. "Verax," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT**; aged 26; first-class experience, London and country; Dispenser, Prescriber, and Counterman. "Drugs," 5 John Street, Filey, Yorks.

**SITUATION** wanted; London preferred; nearly 8 years' experience; aged 22; good references. H. L., 89 Montgomery Street, Sparkbrook, Birmingham.

**CHEMIST**; good Analyst; highest references; wants suitable engagement. "Ad. Dr.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, situation as Dispenser to Surgeon; aged 23; salary moderate. 167/19, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER**; 29; qualified; tall; highest testimonials; married (no family); good Extractor; understands Photography. J., 21 Upper Street, Islington.

**JUNIOR**, 18½, requires engagement in a good Dispensing business; 2½ years' experience. "Ricini," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT**; unqualified; 26; 11 years' good experience, high-class Dispensing and quick Retail; Birmingham preferred. Smith, c/o 107 Deansgate, Manchester.

**MANAGER**, Locum, or Senior; qualified, and Dentist; married; first-class experience; 35. "Fidelis," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT**; aged 30; outdoors; 13 years' first-class experience; 3 years' reference; abstainer. 194/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER** or Dispenser; qualified; experienced; 30; height, 5 ft. 10 in.; Liverpool or Manchester preferred. "Chemicus," 26 Dartmouth Road, Forest Hill, S.E.

**ASSISTANT**, 21½ (Minor qualifications), desires engagement; good references; experienced dispenser; disengaged about October 1st. E. G. Robinson, 415 Glossop Road, Sheffield.

**AS** Manager; Chemist and Druggist, giving up business; aged 32; married; good experience; knowledge of Homœopathy; disengaged October 1st. R. Tronghton, 79 Northgate, Wakefield.

**UNQUALIFIED** Surgeon and Chemist; highest experience; an Assistancy to Dispense, &c.; time for study; salary nominal, and an abstainer. Address, "Medicus," Dunham Hill, Warrington.

**WHOLESALE.**—Responsible position wanted with manufacturing firm; experience as Chemist in large London Laboratories. "Chemicus," 16 Albion Road, Stoke Newington, London, N.

**UNQUALIFIED**; 25; varied experience; abstainer; last reference; permanency at seaside preferred; disengaged 30th inst. "Praescribo," c/o Messrs. E. G. Portlock & Sons, Wotton-under-Edge, Gloucester.

**DISPENSER** to Surgeon or Hospital in London; aged 23; experience 4 years; 4 nights a week required for study; disengaged Sept. 19. C. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**IMPROVER.** Chemist's son wishes for situation in select business; indoors; has served 2 years; aged 18; Brighton, Eastbourne, or Tunbridge Wells preferred. R., c/o Barron, Harvey & Co., Gresham Street, London.

**ASSISTANT**; unqualified; London West-end preferred; outdoors; over 7½ years' good experience, including Dispensing; excellent references; disengaged September 29th. Edwards, 141 Upper Berners Street, Leicester.

## SITUATIONS OPEN—Cont.

**JESSE WILLIAMS & CO.**, Chemists, Park Hall Buildings, Cardiff, require immediately a smart Junior; outdoors.

**ASSISTANT**, about 23, for good-class business, to enter September 17; hours 8 to 8; duty light. Please state salary required, and give last two references. Smith, 5 Norman Road, St. Leonards.

**QUALIFIED** Branch Manager wanted, for Branch (London). Write, giving full particulars, state if married, abstainer, &c., to 195/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**EXTRACTS.**—Wanted, thorough practical workman able to extract tobacco-juice from the leaf; good prospects. Apply to 193/39, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**QUALIFIED** man wanted, well experienced at Counter-work, Window-setting, &c.; outdoors; good references indispensable; Extractor preferred. J. Beedzler & Co., 20 Norton Folgate, E.C.

**DISPENSER** (second) wanted at once for firm of Surgeons; indoors; age about 23; must be quick and accurate. State salary required, and enclose photo and references, to Mr. Ray, 2A Park Lane, Croydon.

**WANTED**, Ledger Clerk; must be accustomed to the Wholesale Drug and Patent-medicine trade. State salary required and references to 117/42, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JOHN BARKER & CO.**, Kensington, W., require two Countermen for a quick high-class trade; close at 6.30, Saturdays 2 o'clock; no Sunday duty. Apply, by letter, or personally, before 11 or after 5 o'clock.

**SCARBOROUGH.**—Wanted, Junior Assistant, indoors (Minor), to take charge of Branch; Prescribing and Mixed Light Retail; good references. Enclose carte, with terms, to Alfred Jones, Chemist, Scarbro'.

**WANTED**, an Assistant (outdoors), between 25 and 35, for Light Retail and Dispensing; liberal salary given to a suitable man. Apply by letter, or personally before 2 or after 6, 311 Commercial Road, E.

**WANTED**, a good Invoice Clerk, accustomed to the Wholesale Drug and Chemical Trade. Apply, by letter, stating age and salary required, to B. H., care of Messrs. Goodinge & Sons, 16 Aldersgate Street, London.

**SMART** Assistant wanted (outdoors) by end of September, accustomed to brisk Stores trade and Dispensing. Apply, stating age, with photo and full particulars of experience, to D., 76 English Street, Carlisle.

**COLOMBO**, Ceylon.—Junior Assistant required, for good-class Pharmacy. Give usual particulars, state age and height, and say when prepared to leave England, Mr. Campbell, Lansdowne, Hampton-on-Thames.

**DISPENSERS** wanted for High-class Drug Store; must be qualified by examination. Apply, by letter, stating age, height, and full particulars, to 188/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**FIRST-CLASS** opening in English Chemist's in Japan, for qualified Assistant, about 25, with really good London experience; short hours; liberal salary. Full particulars to Dakin Brothers, 87A Leadenhall Street, E.C.

**WANTED**, single gentleman, qualified, as Manager, Extractor, and Prescriber; salary £60 per annum (indoors). Apply, stating full particulars, to "South Wales," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, qualified man, to Manage Retail establishment; smart Counterman and Prescriber; aged not under 30 and not over 40; salary £2 per week. Particulars to Flesher Raybould & Co. (Limited), Drug Stores, Dudley.

**SOUTH FRANCE.**—Two Assistants wanted, qualified, and with a thorough knowledge of French; also two unqualified, French not necessary. Apply, "Export Department," S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, London.

**REQUIRED** at once, Junior Assistant, outdoor: must be steady, competent, well recommended, and of good appearance and address. Apply by letter, with photo, stating particulars and salary required, W. V. Wright, 131 High Street, Putney, S.W.

**WANTED**, October 1st, competent Assistant; qualified preferred; indoors; must be a smart dispenser; please state full particulars and salary expected, enclosing photo, which shall be returned. "Manager," Apothecaries' Hall, Colquitt Street, Liverpool.

**WANTED**, in October, a Junior Assistant (indoor), in a light Retail business, with opportunities for attending evening classes; where an Apprentice is kept. Address, with full particulars, to "Metre," Messrs. Hodgkinson & Co., 101 Whitecross Street, London.

**WANTED**, Junior Assistant (indoors), an active and obliging Counterman, for good-class Retail and Dispensing Business; light hour. Apply, stating age, height, reference, and salary required (enclosing photo), to Goodman, Chemist, Banbury, Oxon.

**WANTED**, qualified Assistant as Junior, having good provincial experience; one desiring permanency suitable; state full particulars and salary required; outdoors; Eastern Counties. 191 35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**. Assistant with Minor qualification, for general trade; indoors; must be a good Counterman; one with knowledge of Photography preferred. Apply, stating age, height, experience, and salary required, to T. Turner, Market Street, Longton, Staffs.

**IMMEDIATELY.**—A Junior, accustomed to Agricultural and good-class Family Trade, and able to extract teeth. Apply, stating age, height, and salary required, and enclosing photograph (to be returned), to H. C. Webb, Pharmaceutical Chemist, Buckingham. Indoors only.

**WANTED**, by the end of September, for a high-class Dispensing business, a qualified Assistant; must be a quick and accurate Dispenser, and used to good-class Counter-work. Please state age, height, salary required, and particulars of experience, enclosing carte, to J. R. Eyles, Weymouth.

**WANTED**, young man to take active management of a Chemist and Druggist's business, with Gilbey's Agency attached (established over 38 years in present premises), under a partnership arrangement; moderate capital only required. Address, Baker, Halford & Sons, St. Peter's Gate, Nottingham.

**IMMEDIATELY**, a gentlemanly qualified Managing Assistant, for Light Retail and Dispensing business; indoors; one seeking a permanency preferred. Apply, stating age, height, experience, references, and salary, enclosing photo (to be returned), to J. James, Chemist, West Derby, Liverpool.

**WANTED**, an active and pushing Junior Assistant for first-class Family business; one used to Store trade preferred; no Sunday duty. State age, salary (outdoors), height, experience, references, if member of any Church, and send photo, to Managing Director, The Oxford Drug Company (Limited), Cash Chemists, Oxford.

**WEST** London Hospital, Hammersmith Road, W.—Assistant Dispenser, with Minor qualifications, wanted; aged not more than 28 years; salary £80; hours 9 to 6, and until completion. Candidates must attend at 10.30 A.M., Monday, September 10th, and produce copies of three most recent testimonials. R. J. Gilbert, Secretary Superintendent.

**INDIA.**—Wanted, immediately, a qualified Assistant; age not to exceed 26; three years' agreement; must have town experience, and able to give unexceptionable references as to character and capabilities; one having a knowledge of sundries, surgical and optical instruments preferred. Address, with full particulars, F. L. Q., care of Southey & Co., Stationers, Fenchurch Street, E.C.

**WANTED**, capable Junior Assistant for the Retail, Family, and Agricultural trade; no Sunday or late duty; early closing; an industrious young man requiring thorough business experience would find this an agreeable opening, and would be liberally treated with; outdoors; references, experience, age, height, and (if possible) photo in first letter. W. Kemp & Son, Wholesale and Retail Chemists, Horncastle.

**SUPERIOR** Board and Residence for Students: single and double-bedded rooms, bath, early breakfast, home comforts, house of chemist's widow, no children; dining-room and study; 3 minutes' Brixton Station; tram, bus, 1*d.* fare to Kennington Colleges; references to former students; very moderate terms. J. W., 39 Saltoun Road, Brixton.

## SITUATIONS WANTED.

*1s. for 12 words; 6d. for every 6 words beyond.*

**JUNIOR**; 22; 7 years' good experience. B., 1 Oxford Place, Doncaster.

**LONDON**; part-time; outdoors; qualified; 21; abstainer. Williams, c/o Silitoe, Redhill.

**QUALIFIED**; 24; disengaged; London. "Aurant," 41 Store Street, Bedford Square, W.C.

**AS** Junior; aged 22; disengaged; country preferred. "Radix," Alvechurch, near Redditch.

**PART-TIME**; London; 7 years' experience; disengaged September 29th. Mill, Boscastle.

**TEMPORARY** Manager or Senior; qualified; disengaged. "Locum," 18 Madoc Street, Llandudno.

**DISPENSER** (Surgeon's); aged 27; disengaged; unqualified. "Rhei," 68 Blenheim Road, Gloucester.

## BUSINESSES FOR DISPOSAL—Cont

**KENT.**—Unopposed Light Retail, Dispensing, and Prescribing Business; returns £600; rent £35; corner shop; well-fitted and stocked; convenient house, and nice garden; tooth-extractor could clear rent and taxes; price £450; every investigation offered. "Saline," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**HANDSOMELY-FITTED** Pharmacy, doing a good-class Light Retail, Dispensing, Prescribing, and Proprietary trade; very profitable; now much neglected; returning £800; a principal who can give his whole time can double; about one hour from Town. For particulars, address, "Aurantii," Horncastle's, 61 Cheapside, London.

**£250.**—Hampshire.—Unopposed Retail and Prescribing Business situated in a village; returns £7 weekly, full prices; very profitable trade; rent £25, good house and garden; vendor's own property; strict investigation allowed. For further particulars apply, "Rhei," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LONDON, W.**—Ready-money Retail, Prescribing, and Dispensing Business, in busy main thoroughfare; plenty of room for increase; well-fitted shop, with good stock; house, with garden; lease, 6½ years unexpired; rent £65; returns average over £1,000; price £450. Apply, 193/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£220,** or reasonable offer.—General and Light Retail, in growing suburb, West London; returns £338; lately and now under manager, owing to illness of principal; main road; rent £44, one-third let off; well stocked; returns could easily be doubled by diligent man with knowledge of Dentistry. "Chemicus," 3 Victor Parade, College Park, W.

**BRANCH,** handsomely-fitted and well-stocked; neglected; has done, under principal, £1,000; present return, £6 per week; good man can do £1,000; patents nearly nil; good-class trade; marketing neighbourhood; net rent, £24; good house; price £275, or valuation, to immediate purchaser; exceptional bargain. "Borax," 184 Dalston Lane, London, N.E.

**TO** Small Capitalists.—A good opportunity for securing a genuine Cash Retail and Dispensing Business in London, within the radius; shop well fitted and stocked; trade mostly drugs and own specialties; very few patents; or suitable for a branch; owner taking country business; price, valuation only, about £200. "Carmine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SHEFFIELD** (prominent position of busy thoroughfare).—Old-established connection for sale, under special circumstances and favourable conditions; energetic man would greatly increase present remunerative returns by personal attention; lease; valuation can be reduced if desired to about £500, part of which can remain to trustworthy man with references. F. J. Brett, Valuer, 60 St. Stephen's Road, Leicester.

**ENGLAND'S RIVIERA.**—I have a *bond-fide* progressive Cash Dispensing, Toilet, Family Business for you on very easy terms, with Gilbey's Wine Agency and sale of Spirits available on October 10; few patents lightly cut; Dental, Photographic, Homœopathic and Cigars advantageously added; former wanted here; no dentist; Store adaptation would ensure unique trade; rent and all rates together only £31; excellent house and clean, small garden; near sea; bathing, boating; main road, fine aspect; supreme winter climate; reasons for disposal are purely domestic; removing Notts. Write, Archer, St. Mary Church, Devon.

## TO LET.

*3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**TO** Chemists and Herbalists.—A double-fronted shop, 5 rooms, good garden; no opposition; rent £32. Apply, 57 North Cross Road, East Dulwich, S.E.

**KINGSTON-ON-THAMES** (three minutes from station, main road, good neighbourhood), a finely situated double-fronted shop; imposing appearance; good opportunity for chemists. Apply to A. C., 78 Richmond Road, Kingston-on-Thames.

**LONDON, S.W.**—Shop to Let, suitable for "Store" Chemists, near Warwick Street and Victoria Station; very busy market; rent £75, greater part lets off if required; no immediate competition to fear; long or short lease or agreement. "S.V.R.," Cale Street Distillery, Chelsea, S.W.

**TO** Chemists.—House and Shop to Let, 122 St. Paul's Road, E., containing 7 rooms, shop, and basement; market position in densely populated neighbourhood; no opposition; this business badly wanted; rent £34 and taxes; lease would be granted to good man. Apply, Mardle, Baker, 122 Clark Street, Stepney, E.

**TO** Chemists, Greengrocers, Butchers, Pawnbrokers, first-class Hairdressers and others.—To be Let, rent £35 on lease, No. 68 Southbridge Road, Croydon; only unlet shop in handsome terrace of 10; new plate-glass front, tiled entrance, &c.; 7 good rooms, shop, scullery, and garden; sound opening for pushing man of business; must fit up well and put in good stock; key at No. 74.

**TO** Grocers, Oil and Colourmen, Chemists, Drapers, Pawnbrokers, Greengrocers, and others. Attractive corner, double-fronted shop to Let; corner of 5 roads; No. 78 Court Hill Road, High Street, Lewisham; rent £55, on lease; 6 good rooms, large store-room, with rolling-way from front; fine bold, roomy shop; splendid opening for good business man; must fit up well and put in good stock; key next door.

## PARTNERSHIPS.

*3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**CHEMIST,** having two businesses in London not far apart, is desirous of meeting with a young energetic man to join him; the net profit made in the two businesses is nearly £500 yearly, and can be increased; half share of the two, £400 cash. Apply "Partner," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**A VACANCY** occurs for a Partner in a City Agency doing with Chemists and Medical Men; a capital of £300 and services required; short hours and gentlemanly occupation; must have a practical knowledge of the Drug trade, legal qualification immaterial. Address, "Pharmacist," c/o Arthur J. Isard, Esq., Solicitor, 14 Queen Street, Cheapside, London, E.C.

## APPRENTICESHIPS.

*3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**A VACANCY** occurs for a well-educated youth as Apprentice in a good-class Retail and Dispensing Chemist's Business, situated in one of the healthiest London suburbs; moderate premium. "Alpha," care of Quelch, 4 Ludgate Hill, E.C.

## SITUATIONS OPEN.

*3s. 6d. for 50 words; 6d. for every 10 words beyond.*

**WANTED,** an Assistant aged about 22. Apply, H., 19 High Street, Kingston, S.W.

**WANTED,** reliable Junior Assistant. Apply, with photo and full particulars, to "Manager," 38 Parson's Green, Fulham, S.W.

**IMMEDIATELY,** a good Junior Assistant, indoors. State age, height, experience, reference, and salary required, W. Bishop, Chemist, Grantham.

**WANTED,** a smart Counterman for West-end establishment; short hours, no Sunday duty. Address, Box 2524, Sell's Advertising Offices, London.

**AN** Assistant wanted at once; qualified preferred; indoors; aged about 23; liberal salary. Apply, Davies, 485 King's Road, West Chelsea, S.W.

**PILL-COATER.**—Wanted a man well up in Pearl Pill-coating. Address, with full particulars, wages, &c. F. Brown, Chemist, Park Street, Lincoln.

**WANTED,** immediately, a third Wet Counterman. Apply, stating experience and salary required, to R. Sumner & Co., 50a Lord Street, Liverpool.

**ASSISTANT;** single, good address and Prescriber; view to succession; small capital. Address, 195/12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR** wanted; indoors; must be active and obliging. Send particulars, age, height, &c., with photo (which will be returned), V. W. Meacham, Chemist, Ledbury.

**QUALIFIED** Junior for high-class Retail and Dispensing. State age, height, salary required, give references, send photo, Proctor, Son & Clague, Newcastle-on-Tyne.

**JUNIOR** (outdoors) in Mixed Country business. Apply, with usual particulars, enclosing photograph (if possible), to Spong & Son, Chemists, Biggleswade, Beds.

**WANTED,** a qualified Assistant for the Retail counter; outdoors. Apply, giving full particulars, to D. P. Roberts, Drug and Chemical Stores, 120 North End, Croydon.

**WANTED,** Junior Assistant; indoors. Apply, with usual particulars, enclosing photo if convenient, Moore & Co., Chemists, Commercial Row, Pembroke Dock, South Wales.

**WANTED,** immediately, Junior or Improver, for good-class business; indoors, sleep out (bedroom found). Send usual particulars, salary, and photo to Davis, Chemist, Leamington.

**JUNIOR** Assistant, outdoors, about 20 years of age, accustomed to a good-class country business. Apply, with references and usual particulars, to J. Hinks, Chemist, Cross, Worcester.

**A QUALIFIED** Assistant, used to the Front Counter. Apply personally if possible, if by letter give full particulars, to J. G. Shirley & Son, 2 Westbourne Grove, Bayswater, W.

## SITUATIONS WANTED—Cont.

PART-TIME. 1, 2, or 3 evenings a week and Sunday duty. "Chemist," 82 Crowndale Road, N.W.

PART-TIME Assistant to Chemist or Surgeon, in London. "Chemicus," Blaenau Festiniog.

LOCUM-TENENS: unqualified; 23½; experienced. "Demem," 131 King's Road, Chelsea, S.W.

JUNIOR: 22; tall; time for study; London; highest references. Sparks, St. Nicholas, Ipswich.

ASSISTANT; unqualified; 31; 14 years' experience. W., 105 Shenley Road, Camberwell, S.E.

IMPROVER; 19; 4 years' experience; London preferred. Apply, "Pills," 107 London Street, Reading, Berks.

ASSISTANT: 22½; tall; London experience; good references. O. Clements, Aston Cantlow, Henley-in-Arden.

BRANCH Manager or Locum; qualified; good experience; aged 36. "Statim," 11 Upper Lewes Road, Brighton.

DISPENSER to Doctor or care of Retail; 9 years' experience; good references. "Dispenser," 49 Senrab Street, E.

JUNIOR (outdoors), 20, 4 years' London experience, requires situation, London; disengaged. Lewis, c/o Norman, Godalming.

DISENGAGED.—Assistant, in London or provincial town; with or without time for study. Jones, 106 King's Cross Road.

JUNIOR; 21; tall; 6 years' experience; time for half-day classes weekly; state hours and salary. "Pyro," Bell, Chemist, Ambleside.

SUCCESSION Manager or Assistant in small business, with view to purchase; married; aged 33; good experience. "Pyro," 36 Park Street, Nottingham.

WHOLESALE; 24; Laboratory Assistant or Wet Counter; 6 years' experience; entirely satisfactory references. Address, A. B., 63 Hoopern Street, Exeter.

ASSISTANT, fashionable resort, South Europe; good references; disengaged October 20. 195/18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED Manager requires engagement; 39; single; Dispenser; Prescriber; town or country; references will bear strictest scrutiny. Address, "Statim," 78 Wells Street, Oxford Street, W.

LOCUM-TENENS and temporary Manager; country preferred; qualified; experienced and steady; highest references; disengaged September 20. "Extractor," 23 Florence Road, London, S.E.

WHOLESALE; Drys; energetic young man; 25; 10 years' experience with first-class firm; can wrap and mark thoroughly. Address, "Reliable," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Assistant (outdoors), for Branch or Stores; disengaged end of this month; qualified; aged 36; height 5 ft. 9 in.; good Counterman and Prescriber, and good references. K., 141 Bevois Hill, Southampton.

IMPORTANT to Wholesale Druggists.—Advertiser, having good Wholesale and Retail experience, is desirous of representing a London house on salary and commission; London and suburbs. Apply, 164/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SUCCESSION.—Managership, with view to succession gradually, in good-class Dispensing and Retail business; married; aged 28; live on premises; would invest small amount; good experience also in managing and buying. Underwood, Chemist, Newcomen Street, Redcar.

WHOLESALE Managing Chemist, having good qualifications and practical experience in the manufacture of Galenicals and Specialities, seeks a similar or other suitable appointment; now disengaged; unexceptionable references. "Cortex," 17 Beaumont Road, Hornsey Rise, N.

## MISCELLANEOUS.

*Special charges are made for Advertisements under this heading, which can be obtained on application.*

**FINEST AUSTRALIAN HONEY.**
Half-cwt. tins, at 36s. per cwt. "Wharf," 38 Tooley Street, S.E.

FOR Sale, immediately, 12 ft. solid mahogany-fronted counter, the back full of drawers, 70s.; 12 ft. range mahogany drawers with shelving and lockers complete, £7 10s.; massive mahogany wall-case, with plate-glass doors, 8 ft. long, £10; 5 ft. mahogany dispensing-screen, 70s.; one ditto, high-class, £5; 6 ft. bent-glass counter-case, £4 10s.; all equal to new; also the complete fittings of high-class shops; experienced fitters sent to all parts of the country; send for testimonials. Edwards & Co., 106 Whitechapel, Liverpool.

"THE BRITISH HERBAL," a History of Plants and Trees of Great Britain, by John Hill, M.D., dated 1756, with 75 plates, 25 illustrations on each; cost 7 guineas when new; in good condition. "Dental Surgery," by Sir John Tomes, F.R.S., cost 15s.; good as new. "Minor Surgery and Bandaging," by Heath, cost 6s.; good as new. Ten Ordinary £5 Shares in Barclay & Sons, Lim., £3 paid up. Cash offers to 191/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

THE

# CHEMISTS' & DRUGGISTS' DIARY, 1895.

This work is now in preparation, and from the nature of the Special Treatise and carefully-compiled Index which will be embodied in it we may predict that it will be as popular and useful as any of its predecessors.

*For space and positions early application should be addressed to*

The PUBLISHER, 42 Cannon Street, LONDON, E.C.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*September* 8, 1894.